BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA



Order Instituting Rulemaking to Implement the Commission's Procurement Incentive Framework and to Examine the Integration of Greenhouse Gas Emissions Standards into Procurement Policies.

Rulemaking 06-04-009

OPENING COMMENTS OF PACIFIC GAS AND ELECTRIC COMPANY (U 39 E) ON TYPE AND POINT OF REGULATION OF GREENHOUSE GAS EMISSIONS IN THE NATURAL GAS SECTOR UNDER AB 32

CHRISTOPHER J. WARNER

Pacific Gas and Electric Company

77 Beale Street

San Francisco, CA 94105

Telephone: (415) 973-6695 Facsimile: (415) 972-5220

E-Mail: CJW5@pge.com

Attorneys for

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I. INTRODUCTION

Pursuant to the ruling of the Administrative Law Judges dated November 28, 2007 (ALJs' Ruling), Pacific Gas and Electric Company (PG&E) provides its opening comments on type and point of regulation of greenhouse gas emissions in the natural gas sector under AB 32. PG&E's comments are in the form of an executive summary and responses to the questions listed in the ALJs' Ruling.

II. EXECUTIVE SUMMARY

PG&E has two overarching goals with respect to AB32 implementation. These are: 1) to achieve long-term and sustained reductions in greenhouse gas emissions; and 2) to manage the costs of achieving these reductions on behalf of our customers. As a proven and effective means of achieving these dual objectives, PG&E supports the use of a well-designed cap and trade market, and generally supports bringing as many sectors as practicable into a cap and trade market. There are some fundamental questions that help inform whether a particular sector, including the natural gas sector, should be included within a cap and trade market. They include:

- What are the amount and timing of emissions reduction opportunities available at a lower cost as related to other sectors?
- To what degree can these opportunities be captured through programmatic measures? How much of the remaining potential might be captured by bringing that sector into a cap and trade program? How likely and when will these savings be realized?
- Will there be significant market liquidity benefits from bringing a sector into a cap and trade market?
- What are the incremental administrative, reporting and transaction costs associated with moving this sector into a cap and trade market?
- What is the likely direction of a federal or regional program with respect to the sector? How will a California-only program for the sector integrate with a federal or regional program?

PG&E addresses these questions in turn.

For natural gas, the CPUC has recognized and PG&E agrees that there is a natural division between large customers and small customers. PG&E also supports bringing large customers into a California cap and trade market, but does not currently support bringing small natural gas customers (small commercial and residential customers) into a cap and trade market.

For small customers, PG&E views the emissions reduction opportunities to be directly tied to natural gas efficiency improvements and believes they are more limited. This view is supported by the initial draft results from the Energy and Environmental

Economics (E3) GHG Modeling Study. ^{1/2} Further, PG&E believes it is likely that the bulk of these savings can be achieved through a well-integrated set of programmatic measures directed at small customer natural gas consumption, which would include state appliance and building efficiency codes and standards, complementary utility customer energy efficiency programs, and possibly a point of sale energy efficiency program. Apart from these efficiency improvements, there appears to be very limited cost-effective opportunities for other, lower carbon fuels to substitute for small customer natural gas consumption. While PG&E certainly supports continued rigorous market assessment of the small customer natural gas segment to reaffirm these observations, nonetheless if the observations are true, then there may be little or no cost-savings available by including this segment in a cap and trade program.

In terms of market liquidity, PG&E makes two observations. First, as noted above, market opportunities may be limited. Second, fluctuations in residential and small commercial natural gas use are generally driven by cold winters, which is different than what drives short-term variations in electricity demand, and likely to be different than what drives short-term variations in demand by large natural gas customers (such as oil refineries), as well as the cement and transportation sectors. If so, then there may be a small diversity benefit to including this sector a cap and trade market. Overall, there appears to be limited liquidity benefits from including small natural gas customers in a cap and trade market, but again PG&E expects that further study evaluating liquidity benefits as a cap and trade market expands may be useful.

Unlike large natural gas users, consumption of natural gas by small customers

See Energy and Environmental Economics, Inc. (E3), summary of aggressive policy case results. Located at: http://ethree.com/GHG/Aggressive_Policy_Model_Results_v1b.doc.

occurs literally at millions of different customer premises and end uses. Further, the occupants of these premises may or may not be paying the bills. It is likely to be too costly and impractical for individual small customers in this segment to be directly regulated through a cap and trade system. Moving further upstream, to the gas local distribution company, would reduce the complexity and cost of moving this segment into a cap and trade program, but also would be impractical because it in turn removes the point of compliance from the users with the ability to reduce emissions directly.

Lastly, a structural and programmatic approach increases the ease of any necessary transition to a regional or federal program and minimizes any potential sunk costs associated with implementing a cap and trade system that may need to be significantly modified or dismantled altogether when a broader federal or regional program is implemented.

In summary, for the small customer segment, PG&E observes that:

- cost-effective emissions reductions opportunities are limited,
- the bulk of these opportunities may be captured through an integrated set of programmatic measures,
- market liquidity benefits are likely to be small, and
- administrative and transaction costs may result in overall program
 costs which are high relative to the potential benefits.
- potential for a federal or regional program presents integration costs
 that are higher if a California only cap and trade program is in place.

However, in the context of an overall and well-designed cap and trade market, additional

insight can be gained through closer examination of these issues.^{2/}

III. RESPONSE TO SPECIFIC QUESTIONS

1. Summary

Today's ruling requests comments on the general type and point of regulation to be used to reduce greenhouse gas (GHG) emissions in the natural gas sector. Parties are invited to file comments on the questions contained in this ruling, and any other issues they deem to be related to this topic. Parties may file comments no later than December 12, 2007 and reply comments no later than January 8, 2008.

2. General Instructions

We are requesting comments on the following issues and questions related to regulation of GHG emissions in the natural gas sector. In a July 12, 2007 ruling, we allowed parties to file prehearing conference statements on natural gas issues and comments on preliminary recommendations of the Public Utilities Commission Staff regarding the regulatory treatment of GHG emissions in the natural gas sector (Attachment A to that ruling). Parties should not repeat comments they submitted in response to the July 12, 2007 ruling. Parties may answer all or any of the following questions. At the end of the questions, parties are asked to submit their comprehensive proposal for how the natural gas sector should be treated for purposes of compliance with Assembly Bill (AB) 32.

Parties should explain their reasons for each answer in detail. Parties are encouraged to refer to their comments filed in response to our November 9, 2007 ruling requesting comments on type and point of regulation issues for the electricity sector, to address the manner in which your recommendations are consistent or differ for the electricity and natural gas sectors.

3. Questions to be Addressed in Comments

3.1. General

Q1. What do you view as the incremental benefits of a market-based system for GHG compliance in the natural gas sector, in the current California context?

Although PG&E is generally in favor of market based mechanisms because they

As the preliminary staff recommendations attached to the ALJs' July 12 ruling confirmed, the largest percentage of GHG emissions attributable to natural gas are through end user combustion (13.87% according to Table 3 of Attachment A), while GHG emissions attributable to the transmission, distribution and storage of natural gas are more than an order of magnitude smaller (0.42%, according to Table 3 and page 8 of Attachment A.)

are more likely to achieve the dual objectives of emissions reductions and cost minimization, the natural gas sector deserves further consideration given its structure and the unwieldy quantity of combustion and emission point sources. The benefits of the market based system may be enhanced if the regulated entity is the entity that emits the greenhouse gases and thus has the ability to directly make decisions on how it is combusted as well as how much. This means that the end users in the residential and commercial markets should be the point of regulation. However, regulating such a large number of individuals and small businesses under a market based system would be administratively burdensome and costly.

An important characteristic of the small customer segment of the natural gas sector is that there is no readily available clean and economic substitute for natural gas to meet residential and commercial space and heating needs. This fact has "good news/bad news" aspects for AB 32 regulation of the natural gas sector. The "good news" is that, despite the lack of any ready alternative to natural gas, overall California residential and commercial "core" gas consumption has remained flat since 1990, and thus GHG emissions from core gas use also have been flat. This is most likely because of the aggressive energy efficiency programs undertaken by California's three primary local gas distribution companies -- PG&E, SDG&E and Southern California Gas-- over the last three decades. In addition, price-induced conservation is likely to have had an effect, along with higher standards for new buildings and new appliances. However, the "bad news" is that opportunities for further "easier," low-capital-intensive energy efficiency gains in core gas use may be more limited, because such gains may be dependent on further building code and appliance standard improvements or relatively

large outlays by homeowners and building owners to replace old gas furnaces and hot water heaters with high-efficiency furnaces and water heaters.^{3/}

Thus, PG&E recommends that improved building and appliance codes and standards, combined with incentives and technical assistance to residential and commercial core gas users at reasonable cost, be the primary means of reducing GHG emissions in the small customer segment of the natural gas sector. PG&E is not certain that the incremental benefits of a market-based system are worth the cost, particularly if a federal or regional system is different.

Q2. Can a market-based system for the natural gas sector provide additional emissions reductions beyond existing policies and/or programs? If so, at what level? How much of such additional emission reductions could be achieved through expansion of existing policies and/or programs?

In theory, if the natural gas sector is subject to a market based system, then additional emissions reductions will occur in the sector only to the extent the cost of the reductions across all the sectors that are in the market based system exceed the cost of the reductions in the small customer segment of the natural gas sector. One early indication of the likelihood of reductions in the natural gas sector is the economic modeling that is being performed by E3 and others. In E3's preliminary analysis of the opportunities for reduction in the natural gas sector there appear to be a small number of reductions available. If the cap on the natural gas sector exceeds the level of these opportunities or if the cost of reductions in this sector is much higher than other sectors, then the entity that is the natural gas point of regulation will likely end up purchasing

^{3/} The California Legislature recently enacted a rebate program for solar hot water heaters, but even with rebates, the initial outlay required to purchase a solar hot water heater appears to remain relatively high.

^{4/} See http://ethree.com/GHG/Aggressive Policy Model Results v1b.doc.

allowances in the open market to meet their cap rather than perform emission reductions measures that exceed the cost of an allowance. Finally, if the entity that is the point of regulation does not have sufficient influence over natural gas consumption decisions, it is also unlikely that any real long term reductions will occur within the sector.

3.2. Principles or Objectives to be Considered in Evaluating Design Options In the November 9, 2007 ruling, we described principles or objectives that the Public Utilities Commission Staff proposes be used to evaluate GHG program design options and to develop recommendations regarding a GHG regulatory approach. Recognizing that some of the stated objectives are more applicable to the electricity sector, we repeat the Staff-proposed objectives below (omitting those items that are only relevant to the electricity sector):

Goal attainment: Does the approach being considered have any particular advantages in terms of meeting overall emission reduction goals? For example, does the approach have any advantages to promoting energy efficiency or combined heat and power?

Cost minimization: Is the approach likely to minimize the total cost to end users of achieving a given GHG reduction target?

Legal risk: Is the approach at greater relative risk of being delayed or overturned in court?

Environmental Integrity: Does the approach mitigate or allow the leakage of emissions occurring outside of California as a result of efforts to reduce emissions in California?

Expandability: Would the approach integrate easily into a broader regional or national program? A related consideration is the suitability of the approach as a model for a national or regional program.

Accuracy: Does the approach support accuracy in reporting and, therefore, ensure that reported emission reductions are real?

Administrative Simplicity: Does the approach promote greater simplicity for reporting entities, verifiers, and state agency staff? How easy will the program design be to administer?

Q3. What objectives or principles should the Public Utilities Commission and the Energy Commission use to determine the appropriate method of regulating GHG emissions in the natural gas sector, and why? Please rank the objectives you propose, in order of importance, adding any objectives not covered above.

PG&E believes that the overarching objectives the Commissions should keep in mind when considering how to regulate the emissions of the natural gas sector are: 1)

Achieving real and sustained long-term emissions reductions; and 2) Managing customer costs. PG&E also supports the other objectives listed in question as important to consider but believes these additional objectives to the extent they are met will all support the first two over arching objectives. The Governor's Market Advisory

Committee (MAC) report recognized the challenges that some sectors might face in its discussion of scope. The MAC highlighted environmental integrity and administrative, monitoring and transaction costs as considerations that might argue for narrowing of scope for the overall program. "These factors may offset the potential benefits from a broad system. Accordingly, the Committee recommends that the cap-and-trade program start out with the broadest coverage consistent with the exclusion of entities that pose serious administrative costs or monitoring difficulties. Coverage can expand over time as these difficulties are overcome." "5/

3.3. Basic Design Questions: Scope of GHG Regulation

For the purposes of answering questions in Sections 3.3, 3.4, 3.5, 3.6, and 3.7, the referenced natural gas sector does not include sources likely to be directly regulated by the California Air Resources Board (ARB), e.g., cement plants, oil refineries, and large point sources, or natural gas used for electricity generation (these emissions are included in the electricity sector).

Q4. Should GHG emissions from the natural gas sector be capped under AB 32? Are there certain sources of emissions within the sector that should be exempt from an enforceable cap?

Because it is the end user of natural gas and not the retail seller or the deliverer, which has the greatest ability to affect the amount of greenhouse gas emissions from

^{5/ &}quot;Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for California," Market Advisory Committee to the California Air Resources Board, June 30, 2007, p. 23.

natural gas, it is desirable to place the point of regulation close to the point of consumption where practicable. It may not be practical to directly regulate small commercial and residential gas users who are primarily responsible for emissions from this segment of the natural gas sector. However, it is more feasible and the initial model results suggest the opportunities for emissions reductions are greater with large consumers, because they can make choices about fuel type and fuel efficiency. A majority of these large consumers will be regulated under the AB 32 regulations as large industrial sources and therefore are already removed from the scope of discussion for these comments. PG&E recommends that the remaining natural gas users be left out of any potential cap and trade system, at least pending a thorough examination of the costs and benefits. This approach minimizes cost and administrative burdens, and minimizes potential investments in setting up a system that may not be cost beneficial and may be incompatible with a regional or federal program.

Q5. For each of the following sources of GHG emissions, state whether the sources described should be subject to an enforceable cap and, if so, whether the cap should be covered by a cap-and-trade approach or only by programmatic measures. For sources you recommend covering programmatically, what specific programmatic actions should be taken? For sources you recommend covering in a cap-and-trade program, are there specific programmatic measures that should be undertaken as complementary to the cap-and-trade program? For each source, discuss how your recommended approach is likely to affect rates.

a. Natural gas combustion in the residential, commercial, and small industrial segments of the natural gas sector.

For the residential, commercial and small industrial segments regulated under AB 32, PG&E recommends that the regulation be in the form of "structural" improvements to building codes and appliance standards, combined with technical

assistance and financial incentives for users to convert inefficient GHG-emitting appliances and buildings to lower emitting alternatives at a reasonable cost.

b. Natural gas combustion by natural gas vehicles.

PG&E believes that given the complexities of determining emissions from vehicle use, the appropriate method of regulation of natural gas vehicles is under the same method and structure as that adopted for mobile sources in the broader transportation sector. Additionally, given that natural gas also serves as substitute for higher-emitting petroleum transportation fuels, distributors of natural gas for combustion by natural gas vehicles should receive credit for any GHG-related fuel-substitution value.

c. Combustion-related emissions from operating the infrastructure including infrastructure related to proprietary operations) used to deliver natural gas to end users within the State.

The natural gas infrastructure is essentially an industrial process and it can be regulated in the same way as other industrial processes. If cap-and-trade is applied to industrial users of a specified size, then the same requirements can be applied to the infrastructure. The infrastructure should be considered as a single fuel consuming entity since it can manage overall emissions impact by increasing the efficiency of the total system rather than at individual components such as compressor stations.

d. Fugitive emissions, including from pipelines, storage facilities, and compressor stations.

PG&E recommends that regulators proceed cautiously regarding the emissions associated with fugitive natural gas from a utility's natural gas operations, in order to ensure that emissions subject to AB 32 source-specific caps be determined by well developed estimation techniques. If measurement is based on sound estimates of vented

or fugitive volumes then the infrastructure can be regulated like any other point source from an industrial process. If however, measurement is based on some of the existing rules of thumb such as miles of pipe or number of compressor stations, then regulation is not practical because the only way to achieve reductions is to curtail access to critical gas supplies.

e. Non-combustion uses of natural gas (please specify).

Given the differences in emissions associated with non-combustion uses of natural gas, entities that use gas for other than combustion potentially should be subject to different forms of regulations. However, PG&E does not have a specific recommendation at this time.

f. Other sources of natural gas sector emissions not listed above (please specify).

PG&E does not have any additional sources of national gas on which to make recommendations at this time.

Q6. For the sources you recommend exempting from an enforceable cap, how would emission reductions be achieved?

PG&E believes that the large emissions sources that should be subject to a cap in the natural gas sector will for the most part be subject to the large point source regulation in the industrial sector generally. The small commercial and residential sector of the natural gas sector should for now be exempt from a regulatory cap. Regardless of whether this segment is brought within a cap and trade market, programmatic and structural measures such as building and appliance codes and standards as well as ongoing energy efficiency programs, including utility promotion for the development and deployment of high-efficiency hot water heaters, should be employed to achieve cost-effective emissions reductions.

An example of a programmatic and structural measure that could be evaluated for potential use in the core gas sector under AB 32 is the "time of sale" energy efficiency program recommended by NRDC in their initial recommendations to the ARB for the AB 32 scoping plan. Other measures that could be considered are the building code and appliance standard improvements identified in the Climate Action Team's comprehensive list of GHG reduction initiatives. It is a comprehensive list of GHG reduction initiatives.

Q7. As the Public Utilities Commission does not currently have authority to oversee all potential GHG-reducing programs for all kinds of natural gas entities in California, which agency(ies) should regulate in such areas? For example, should ARB require that publicly owned utilities meet energy efficiency targets? Would additional legislation need to be enacted?

Under AB 32, the ARB is the only State agency with legal authority to enforce GHG emissions reduction regulations and thus would be the agency responsible for ensuring compliance with those regulations by publicly owned utilities.

3.4. Basic Design Questions: Point of Regulation

Q8. If you believe that the natural gas sector and other sources of emissions related to combustion of natural gas1^{8/} should be included in a cap or cap-and-trade system, where should the compliance obligation be placed: upstream, as close to the fuel source as possible (for example, on natural gas processing plants and pipelines) or midstream/downstream (large point sources and, for smaller users, the local distribution company level)? If you suggest another option for assigning responsibility, please describe in detail.

As with most air quality regulations, the point of regulation or compliance obligation for all sectors should fall, where possible, at the point source of GHG

^{6/} Natural Resources Defense Council, Scoping Plan Recommendations, October 1, 2007, http://www.arb.ca.gov/cc/scopingplan/submittals/electricity/electricity.htm.

[&]quot;Climate Action Team Report to Governor Schwarzenegger and the Legislature," California Environmental Protection Agency, March, 2006, pp. 51-53; "Updated Macroeconomic Analysis of Climate Strategies Presented in the March 2006 Climate Action Team Report," Economics Subgroup, Climate Action Team, October 15, 2007, pp. 6-7, 24-25

^{8/} Sources include cement plants, oil refineries, large point sources regulated by ARB and natural gas combusted to produce electricity.

emissions. Except for certain emissions from pipelines and gas processing facilities, the point source for GHG emissions from the gas sector is at the end user in the natural gas sector. Because the ability to administer such a cap at such a large number of sources will be burdensome and costly, an alternative solution, as discussed above, would be a combination of programmatic and structural measures that can be targeted at the source of combustion and based on well-analyzed cost-benefit analysis.

Q9. Should core aggregators or natural gas marketers bear responsibility for the GHG emissions of the customers for whom they procure natural gas?

No. As with utility LSEs, core aggregators could be an informational clearinghouse and source of consistent technical assistance as part of programs to reduce GHG emissions.

Q10. If ARB chooses to individually regulate emissions from facilities in certain sectors as well as emissions from other large point sources, what level of GHG emissions should ARB use as the threshold to define large point sources? Explain your reasoning.

Economic modeling and practical cost-benefit analysis, rather than arbitrary numerical cut-offs, should be used to determine the most efficient threshold of emissions above which to regulate. It is only through complete economic review of the opportunities for emissions reductions across all sectors that an informed tradeoff can be made that balances administrative costs with opportunities for reductions. As discussed above, PG&E believes that only large industrial gas users are practicably susceptible to direct cap and trade regulation. The information gathered in the natural gas data request and issued by the CPUC on December 10, 2007, demonstrates that there are not significant volumes associated with customers who consume between 2 million and 4.5

million therms per year. ^{9/} Therefore, PG&E does not recommend any threshold lower than 4.5 million therms for large customers.

3.5. Deferral of a Market-based Cap-and-Trade System and Coordination with Other States

Section 3.5 of our November 9, 2007 ruling described a scenario in which a California-only cap-and-trade system may not be implemented at this time. Similar questions are asked here for the natural gas sector.

Q11. In developing recommendation to ARB, should the Public Utilities Commission and the Energy Commission give consideration to actions other states may take regarding the regulation of natural gas sector GHG emissions? If so, how?

The CPUC and the CEC should give great weight to the likely form of regulation at the regional or federal regulation. PG&E would find this to be especially important if some portion or all of the natural gas sector were included in a cap and trade system. Equally important, given the likely use of programmatic measures, is the decoupling of sales from earnings for natural gas utilities. Finally, California should be cognizant of any relative competitive and cost of living impacts if a California program is significantly more rigorous than that of other states.

Q12. Is it important that the regulation of California natural gas sector GHG emissions be consistent with actions taken by other states?

See response to Question 11.

Q13. Would deferral of a cap-and-trade program for the natural gas sector facilitate or hinder California's integration into a subsequent regional or federal program?

PG&E believes deferral of a cap-and-trade program in the natural gas sector would facilitate integration into a regional or federal program and also minimize the risk

^{9/} See Attachment K located at http://docs.cpuc.ca.gov/PUBLISHED/RULINGS/76322.htm.

of incurring potential sunk costs with a system that does not integrate well with other potential programs whether regional or federal.

Q14. If neither a regional system nor a national system is implemented within a reasonable timeframe, should California proceed with implementing its own capand-trade system for the natural gas sector? If so, how long should California wait for other systems to develop before acting alone?

If regional and federal programs are not implemented then California should proceed with a cap-and-trade system for the natural gas sector only if there are sufficient opportunities for reduction available in the sector at a reasonable cost. This can be determined after thorough modeling of the emission reduction opportunities in the Natural Gas sector as well as all other sectors considered for caps. As mentioned earlier, the small commercial and residential customer segment should be considered separately from large natural gas customers.

Q15. If a market-based cap-and-trade system is not implemented for the natural gas sector in 2012, how would you recommend addressing early actions that entities may have undertaken in anticipation of a market?

Regardless of whether a cap-and-trade system is implemented for the natural gas sector, PG&E recommends that the primary measures used in the core gas sector should be programmatic and structural measures, as discussed above.

3.6. Relationship to GHG Regulatory Approach in the Electricity Sector

Q16. For purposes of natural gas GHG regulation under AB 32, does it matter what is decided regarding electricity sector type and point of regulation? For example, would a load-based cap for the electricity sector necessitate a similar type of cap for the natural gas sector, with local distribution companies as the point of regulation? If applicable, explain the relationships you see between the electricity and natural gas sectors for AB 32 purposes.

A load based cap in the electric sector would not require a comparable market structure for the natural gas sector. However if the natural gas sector is regulated further

upstream than the Local Distribution Company (LDC), such regulation would be incompatible with a load based cap or first seller alternatives. The programmatic and structural form of natural gas sector regulation suggested by PG&E would not result in any conflicts with the electric sector point of regulation.

Q17. If the electricity sector is not included in a California (or wider) cap-and-trade system, could/should the natural gas sector be included? What are your reasons?

If the electricity sector is not included in the California cap-and-trade system, then the natural gas sector should also be left out of any cap and trade system. Without participation by the electric sector, it is unclear how a broad and liquid California market could be implemented. Without this, the market could be thin and allowance prices high and volatile.

Q18. What implications might there be for fuel switching if GHG emissions for one sector (electricity or natural gas) are capped and GHG emissions for the other sector are not? Would such fuel switching likely lead to an overall decrease, or increase, in GHG emissions?

Electric to natural gas fuel switching, for low emitting portfolios such as PG&E's, is likely to increase overall emissions to some degree. Natural gas to electric fuel switching may result in reduced emissions. Since electric infrastructure lead times are relatively long, some infrastructure stress may occur for sudden fuel switching in this direction.

For PG&E, fuel switching from gasoline to either electricity or natural gas is likely to reduce emissions.

Q19. How should the GHG emissions of cogeneration, combined heat and power, and distributed generation end users be considered and regulated (e.g., in the electricity sector, in the natural gas sector, or as a point source)?

Under PG&E's recommended point of regulation of the electric sector – at the "first seller" – cogeneration or combined heat and power would be regulated as electric generation and the natural gas combustion for industrial processes should be regulated as a large industrial stationary sources. For this application the first seller approach is simpler and more accurate than a load based cap, because it obviates the need to apportion out efficiency improvements between industrial processes and electric generation. Under a load based cap it would be necessary to apportion out these efficiency improvements because a cogeneration facility would be subject to two points of regulation.

3.7. Recommendation and Comparison of Alternatives

Q20. Please explain in detail your proposal for how the natural gas sector should be treated under AB 32. Address whether the following emissions sources should be subject to an enforceable cap, and if so, whether reductions in the cap should be achieved by a cap-and-trade approach or only through programmatic requirements: end-user combustion of natural gas, combustion-related emissions from operating the infrastructure, fugitive emissions from pipelines and compressor stations, and non-combustion uses of natural gas. Identify the appropriate point of regulation for each source of emission that should be included in a cap or a cap-and-trade system. Should there just be a sectoral cap, or entity-specific caps as well? Should there be a cap-and-trade system? Address the relationship between programmatic strategies (e.g., energy efficiency programs and pipeline leak detection programs) and a sectoral cap. Discuss any legal concerns or need for new legislation to implement your recommended approach.

As discussed in the executive summary to these comments, PG&E generally supports the use of market-based mechanisms, such as a cap-and-trade program for the regulation of greenhouse gases. However, as highlighted in the MAC Report, the circumstances associated with greenhouse gas emissions of the end-user combustion of natural gas sector may require consideration of different approaches, because the great majority of emissions are attributable to millions of individual core gas end-users in the

residential and commercial sectors with no readily available substitutes for their use of gas for space heating and other domestic uses. For these reasons, PG&E recommends that GHG emissions in the natural gas sector not otherwise covered through large industrial regulation, or other sectors, should not initially be regulated directly through emissions caps. Instead, a combination of programmatic and structural measures should be considered, such as improved building codes and appliance standards, coupled with technical and financial assistance to residential and commercial building owners to convert their existing appliances and buildings to more energy efficient, low GHG-emitting alternatives. This approach is consistent with the current regulatory framework in which the CEC has the responsibility for establishing and enforcing compliance with mandatory energy efficiency standards for buildings and appliances. The CPUC, on the other hand, enforces incentive-based regulation by establishing the cost-effectiveness methodology and program design for voluntary adoption of energy efficiency measures by IOU customers.

PG&E believes that a "programmatic" and "structural" approach need not preclude the eventual use of market-based mechanisms on a supplemental basis after careful examination, such as offsets or allowance trading. However, the primary means of achieving GHG emission reductions in the gas sector should be individual programs and building and appliance codes and standards, rather than regulatory caps or market-based trading of emissions allowances.

Please see the response to question 5 for recommendations on other specific segments of the natural gas sector.

Q21. Describe how your recommended approach satisfies each one of the principles or objectives set forth in Section 3.2.

Goal attainment: The approach recommended in these comments is consistent with the objective of goal attainment for several reasons. Although deferring until regional or federal legislation is implemented will not provide certainty of reductions in the natural gas sector, based on the available preliminary modeling results from E3 the majority of the achievable emission reductions will be achieved in other sectors that can be capped and the cap if implemented for the gas sector will likely be achieved through allowance purchases rather than more expensive reductions in the gas sector.

Cost minimization: PG&E's approach minimizes costs primarily through reducing potentially high administrative costs relative to the small amount of potential reductions in the natural gas sector. Given the relatively limited reduction opportunities currently identified in the natural gas sector and the difficulty in regulating small commercial and residential customers, the benefits of implementing a cap-and-trade in this sector may not be cost beneficial given administrative costs. This is further supported by the potential for an investment in the administration of a market-based system to be lost if a regional or federal program are not compatible with the design of California's market.

Legal risk: The legal risks of a combined programmatic and structural approach are low, as long as the measures are implemented by ARB in a manner similar to other programmatic and structural measures ARB and the local air boards have implemented to reduce point source pollutants in the residential and commercial sectors.

Environmental Integrity: PG&E believes its approach does not provide any incentives to move emissions from natural gas outside of California. This approach

awaits a federal or regional program that would prevent leakage of emissions to other areas.

Expandability: The approach suggested within these comments maximizes the ability to fit within any federal or regional program by deferring state market-based mechanisms for small gas users given expectations of a federal or regional program.

Accuracy: The natural gas sector benefits from relatively straightforward reporting of emissions, therefore reporting accuracy should not be impacted as significantly as it might be in the electric sector under most regulatory frameworks.

Administrative Simplicity: PG&E recommends this particular approach because of the expected limited opportunity of achieving additional emissions reductions in the small commercial and residential customer segment of the natural gas sector.

Q22. How does your recommended approach differ from the Public Utilities Commission Staff's preliminary recommendations for the natural gas sector attached to the July 12, 2007 ruling?

As outlined in PG&E's comments in response to the July 12, ruling, as well as in our comments here, PG&E does not agree with the Commission Staff's preliminary recommendation that a cap and trade mechanism be implemented for the small commercial and residential customer segment of the natural gas sector. PG&E currently recommends well-integrated programmatic and incentive-based approaches, focusing on end-users rather than on the upstream retail sellers, distributors or producers of gas.

IV. CONCLUSION

PG&E recommends that the CPUC and Energy Commission adopt a type and point of regulation for the natural gas sector consistent with these comments. PG&E does not currently recommend including the small commercial and residential segment of the natural gas sector in a California-only cap and trade mechanism.

Respectfully Submitted,

CHRISTOPHER J. WARNER

By:	/s/	
	CHRISTOPHER J. WARNER	

Pacific Gas and Electric Company 77 Beale Street San Francisco, CA 94105 Telephone: (415) 973-6695

Facsimile: (415) 972-5220 E-Mail: CJW5@pge.com

Attorneys for PACIFIC GAS AND ELECTRIC COMPANY

Dated: December 17, 2007

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of "OPENING COMMENTS OF PACIFIC GAS AND ELECTRIC COMPANY (U 39 E) ON TYPE AND POINT OF REGULATION OF GREENHOUSE GAS EMISSIONS IN THE NATURAL GAS SECTOR UNDER AB 32" on the parties listed in the official service list for R.06-04-009 by

- transmitting an e-mail message with the document attached to each party on the official service list providing an email address; or
- by first-class mail, postage prepaid, to each party on the official service list not providing an email address.

Executed on December 17, 2007, at San Francisco, California.

/s/	
MARTIE L. WAY	

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Order Instituting Rulemaking to Implement the Commission's Procurement Incentive Framework and to Examine the Integration of Greenhouse Gas Emissions Standards into Procurement Policies.

Rulemaking 06-04-009

abb@eslawfirm.com;abonds@thelen.com;achang@nrdc.org;adamb@greenlining.org;aeg@cpuc.ca.gov; agc@cpuc.ca.gov;agrimaldi@mckennalong.com;aimee.barnes@ecosecurities.com;aikatz@mwe.com;ak bar.jazayeri@sce.com;akelly@climatetrust.org;alan.comnes@nrgenergy.com;aldyn.hoekstra@pacegloba l.com;alho@pge.com;amber@ethree.com;andrew.bradford@constellation.com;andrew.mcallister@energ ycenter.org;andy.vanhorn@vhcenergy.com;anita.hart@swgas.com;annabelle.malins@fco.gov.uk;Anne-Marie Madison@TransAlta.com;annette.gilliam@sce.com;apak@sempraglobal.com;arno@recurrentener qy.com;atrial@sempra.com;atrowbridge@daycartermurphy.com;Audra.Hartmann@Dynegy.com;aweller @sel.com;bbaker@summitblue.com;bbeebe@smud.org;bblevins@energy.state.ca.us;bcragg@goodinma cbride.com;bdicapo@caiso.com;bernardo@braunlegal.com;beth@beth411.com;Betty.Seto@kema.com;b ill.chen@constellation.com;bill.schrand@swgas.com;bjeider@ci.burbank.ca.us;bjl@bry.com;bjones@mjb radley.com;bkc7@pge.com;blm@cpuc.ca.gov;bmcc@mccarthylaw.com;bmcquown@reliant.com;Bob.luc as@calobby.com;bpotts@foley.com;bpurewal@water.ca.gov;brabe@umich.edu;brbarkovich@earthlink.n et;BRBc@pge.com;brenda.lemay@horizonwind.com;burtraw@rff.org;bushinskyj@pewclimate.org;bwaller stein@aqmd.gov;C Marnay@lbl.gov;cadams@covantaenergy.com;californiadockets@pacificorp.com;car la.peterman@gmail.com;carter@ieta.org;case.admin@sce.com;cathv.karlstad@sce.com;cbaskette@ene rnoc.com;cbreidenich@yahoo.com;cchen@ucsusa.org;cem@newsdata.com;cf1@cpuc.ca.gov;cft@cpuc. ca.gov;charlie.blair@delta-

ee.com;chilen@sppc.com;cjw5@pge.com;ckmitchell1@sbcglobal.net;ckrupka@mwe.com;clarence.binninger@doj.ca.gov;clark.bernier@rlw.com;clyde.murley@comcast.net;cmkehrein@ems-

ca.com;colin.petheram@att.com;cpe@cpuc.ca.gov;cpechman@powereconomics.com;cswoollums@mid american.com;curt.barry@iwpnews.com;curtis.kebler@gs.com;Cynthia.A.Fonner@constellation.com;cynt hia.schultz@pacificorp.com;daking@sempra.com;Dan.adler@calcef.org;danskopec@gmail.com;dansvec @hdo.net;dave@ppallc.com;david.zonana@doj.ca.gov;david@branchcomb.com;david@nemtzow.com;d avidreynolds@ncpa.com;dbrooks@nevp.com;deb@a-

klaw.com;deborah.slon@doj.ca.gov;dehling@klng.com;derek@climateregistry.org;dhecht@sempratradin g.com;dhuard@manatt.com;Diane_Fellman@fpl.com;dietrichlaw2@earthlink.net;dil@cpuc.ca.gov;dkk@e slawfirm.com;dks@cpuc.ca.gov;dmacmull@water.ca.gov;dmetz@energy.state.ca.us;dniehaus@semprau tilities.com;douglass@energyattorney.com;dseperas@calpine.com;dsh@cpuc.ca.gov;dsoyars@sppc.com;dtibbs@aes4u.com;dwang@nrdc.org;dwood8@cox.net;dws@r-c-s-

inc.com;echiang@elementmarkets.com;edm@cpuc.ca.gov;egw@a-

klaw.com;ehadley@reupower.com;ej wright@oxy.com;ek@a-

klaw.com;ekgrubaugh@iid.com;eks@cpuc.ca.gov;ELL5@pge.com;elvine@lbl.gov;emahlon@ecoact.org; emello@sppc.com;epoole@adplaw.com;e-

recipient@caiso.com;etiedemann@kmtg.com;ewolfe@resero.com;ez@pointcarbon.com;farrokh.albuyeh @oati.net;fiji.george@elpaso.com;filings@a-

klaw.com;fjs@cpuc.ca.gov;fstern@summitblue.com;fwmonier@tid.org;gbarch@knowledgeinenergy.com; gblue@enxco.com;george.hopley@barcap.com;ghinners@reliant.com;GloriaB@anzaelectric.org;glw@es lawfirm.com;gmorris@emf.net;gpickering@navigantconsulting.com;gregory.koiser@constellation.com;gro senblum@caiso.com;gsmith@adamsbroadwell.com;gxl2@pge.com;harveyederpspc.org@hotmail.com;hayley@turn.org;hcronin@water.ca.gov;hgolub@nixonpeabody.com;hoerner@redefiningprogress.org;hs1

@cpuc.ca.gov;hurlock@water.ca.gov;HYao@SempraUtilities.com;hym@cpuc.ca.gov;info@calseia.org;jack.burke@energycenter.org;Jairam.gopal@sce.com;james.keating@bp.com;janill.richards@doj.ca.gov;jarmstrong@goodinmacbride.com;jason.dubchak@niskags.com;jbf@cpuc.ca.gov;jbw@slwplc.com;jchamberlin@strategicenergy.com;jci@cpuc.ca.gov;JDF1@PGE.COM;jdh@eslawfirm.com;jdoll@arb.ca.gov;jeanne.sole@sfgov.org;jeffgray@dwt.com;jen@cnt.org;jenine.schenk@apses.com;jennifer.porter@energycenter.org;JerryL@abag.ca.gov;jesus.arredondo@nrgenergy.com;jf2@cpuc.ca.gov;jgill@caiso.com;jgreco@caithnessenergy.com;jhahn@covantaenergy.com;jimross@r-c-s-

inc.com;jj.prucnal@swgas.com;jjensen@kirkwood.com;jk1@cpuc.ca.gov;jkarp@winston.com;jkloberdanz @semprautilities.com;jlaun@apogee.net;jleslie@luce.com;jluckhardt@downeybrand.com;jm3@cpuc.ca.gov;jnm@cpuc.ca.gov;jody_london_consulting@earthlink.net;Joe.paul@dynegy.com;john.hughes@sce.com;johnrredding@earthlink.net;jol@cpuc.ca.gov;josephhenri@hotmail.com;joyw@mid.org;jsanders@caiso.com;jscancarelli@flk.com;jsqueri@gmssr.com;jst@cpuc.ca.gov;jtp@cpuc.ca.gov;julie.martin@bp.com;jwiedman@goodinmacbride.com;jwmctarnaghan@duanemorris.com;jxa2@pge.com;karen@klindh.com;karla.dailey@cityofpaloalto.org;Kathryn.Wig@nrgenergy.com;kbowen@winston.com;kcolburn@symbioticstrategies.com;kdusel@navigantconsulting.com;kdw@woodruff-expert-

services.com;keith.mccrea@sablaw.com;kellie.smith@sen.ca.gov;kelly.barr@srpnet.com;ken.alex@doj.ca.gov;ken.alex@doj.ca.gov;kenneth.swain@navigantconsulting.com;kerry.hattevik@mirant.com;kevin.boudreaux@calpine.com;kfox@wsgr.com;kgough@calpine.com;kgrenfell@nrdc.org;kgriffin@energy.state.ca.us;kjinnovation@earthlink.net;kjsimonsen@ems-

ca.com;kkhoja@thelenreid.com;klatt@energyattorney.com;kmills@cfbf.com;kmkiener@fox.net;kowalews kia@calpine.com;krd@cpuc.ca.gov;kyle.l.davis@pacificorp.com;kyle.silon@ecosecurities.com;kyle_boud reaux@fpl.com;lars@resource-

solutions.org;Laura.Genao@sce.com;lcottle@winston.com;ldecarlo@energy.state.ca.us;leilani.johnson@ladwp.com;liddell@energyattorney.com;lisa.c.schwartz@state.or.us;lisa_weinzimer@platts.com;llorenz@semprautilities.com;llund@commerceenergy.com;lmh@eslawfirm.com;Lorraine.Paskett@ladwp.com;lpark@navigantconsulting.com;lrdevanna-

rf@cleanenergysystems.com;lrm@cpuc.ca.gov;lschavrien@semprautilities.com;ltenhope@energy.state.c a.us;ltt@cpuc.ca.gov;marcel@turn.org;marcie.milner@shell.com;mary.lynch@constellation.com;mclaughlin@braunlegal.com;mdjoseph@adamsbroadwell.com;mflorio@turn.org;mgarcia@arb.ca.gov;mgillette@enernoc.com;mhyams@sfwater.org;Mike@alpinenaturalgas.com;mjd@cpuc.ca.gov;mmattes@nossaman.com;mmazur@3phasesRenewables.com;monica.schwebs@bingham.com;mpa@a-

klaw.com;mpryor@energy.state.ca.us;mrw@mrwassoc.com;mscheibl@arb.ca.gov;mwaugh@arb.ca.gov;nenbar@energy-insights.com;ner@cpuc.ca.gov;nes@a-klaw.com;nlenssen@energy-

insights.com;norman.furuta@navy.mil;notice@psrec.coop;npedersen@hanmor.com;nsuetake@turn.org;ntronaas@energy.state.ca.us;nwhang@manatt.com;obartho@smud.org;obystrom@cera.com;ofoote@hkcf-

law.com;pbarthol@energy.state.ca.us;pburmich@arb.ca.gov;pduvair@energy.state.ca.us;pepper@clean powermarkets.com;phanschen@mofo.com;Philip.H.Carver@state.or.us;philm@scdenergy.com;pjazayeri @stroock.com;ppettingill@caiso.com;pseby@mckennalong.com;psp@cpuc.ca.gov;pssed@adelphia.net; pstoner@lgc.org;pthompson@summitblue.com;pvallen@thelen.com;pw1@cpuc.ca.gov;pzs@cpuc.ca.go v;rachel@ceert.org;ralph.dennis@constellation.com;ram@cpuc.ca.gov;randy.howard@ladwp.com;randy. sable@swgas.com;rapcowart@aol.com;ray.welch@navigantconsulting.com;rhelgeson@scppa.org;RHHJ @pge.com;rhwiser@lbl.gov;richards@mid.org;rick_noger@praxair.com;rita@ritanortonconsulting.com;rk een@manatt.com;rkmoore@gswater.com;rmccann@umich.edu;rmiller@energy.state.ca.us;rmm@cpuc.c a.gov;rmorillo@ci.burbank.ca.us;robert.pettinato@ladwp.com;Robert.Rozanski@ladwp.com;roger.montgo mery@swgas.com;rogerv@mid.org;ron.deaton@ladwp.com;rprince@semprautilities.com;rreinhard@mof o.com;rrtaylor@srpnet.com;rsa@a-klaw.com;rschmidt@bartlewells.com;rsmutny-

jones@caiso.com;rwinthrop@pilotpowergroup.com;ryan.flynn@pacificorp.com;S1L7@pge.com;saeed.far rokhpay@ferc.gov;samuel.r.sadler@state.or.us;sandra.carolina@swgas.com;Sandra.ely@state.nm.us;sas@a-

klaw.com;sasteriadis@apx.com;sbeatty@cwclaw.com;sberlin@mccarthylaw.com;sbeserra@sbcglobal.ne t;scarter@nrdc.org;scohn@smud.org;scott.tomashefsky@ncpa.com;scottanders@sandiego.edu;scr@cpu c.ca.gov;sdhilton@stoel.com;sellis@fypower.org;sendo@ci.pasadena.ca.us;sephra.ninow@energycenter .org;sgm@cpuc.ca.gov;slins@ci.glendale.ca.us;sls@a-

klaw.com;smichel@westernresources.org;smindel@knowledgeinenergy.com;smk@cpuc.ca.gov;snewsom@semprautilities.com;spauker@wsgr.com;sscb@pge.com;ssmyers@att.net;steve.koerner@elpaso.co

m;steve@schiller.com;stevek@kromer.com;steven.huhman@morganstanley.com;steven.schleimer@bar clayscapital.com;steven@iepa.com;steven@lipmanconsulting.com;steven@moss.net;svn@cpuc.ca.gov;s vongdeuane@semprasolutions.com;svs6@pge.com;tam@cpuc.ca.gov;tburke@sfwater.org;tcarlson@reli ant.com;tcx@cpuc.ca.gov;tdarton@pilotpowergroup.com;tdillard@sierrapacific.com;THAMILTON5@CHA RTER.NET;thunt@cecmail.org;tiffany.rau@bp.com;tim.hemig@nrgenergy.com;todil@mckennalong.com; Tom.Elgie@powerex.com;tomb@crossborderenergy.com;tomk@mid.org;trdill@westernhubs.com;trobert s@sempra.com;UHelman@caiso.com;vb@pointcarbon.com;vitaly.lee@aes.com;vjw3@pge.com;vprabha karan@goodinmacbride.com;vwelch@environmentaldefense.org;wbooth@booth-law.com;westgas@aol.com;william.tomlinson@elpaso.com;wsm@cpuc.ca.gov;wtasat@arb.ca.gov;www @eslawfirm.com;wynne@braunlegal.com;ygross@sempraglobal.com;zaiontj@bp.com;

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CALIFORNIA ENERGY MARKETS

517-B POTRERO AVE SAN FRANCISCO CA 94110 Email: cem@newsdata.com Status: INFORMATION

CALIFORNIA ISO

LEGAL AND REGULATORY DEPARTMENT 151 BLUE RAVINE ROAD FOLSOM CA 95630

Email: e-recipient@caiso.com Status: INFORMATION

DAN ADLER DIRECTOR, TECH AND POLICY

DEVELOPMENT

CALIFORNIA CLEAN ENERGY FUND

5 THIRD ST, STE 1125 SAN FRANCISCO CA 94103 Email: Dan.adler@calcef.org Status: INFORMATION

FARROKH ALBUYEH VICE PRESIDENT

OPEN ACCESS TECHNOLOGY INTERNATIONAL INC

SUITE 910

1875 SOUTH GRANT ST SAN MATEO CA 94402

Email: farrokh.albuyeh@oati.net

Status: INFORMATION

MAHLON ALDRIDGE ECOLOGY ACTION

PO BOX 1188

SANTA CRUZ CA 95060 Email: emahlon@ecoact.org Status: INFORMATION

CATHIE ALLEN CA STATE MGR.

PACIFICORP

825 NE MULTNOMAH ST, STE 2000

PORTLAND OR 97232

Email: californiadockets@pacificorp.com

Status: INFORMATION

SCOTT J. ANDERS RESEARCH/ADMINISTRATIVE

DIRECTOR

UNIVERSITY OF SAN DIEGO SCHOOL OF LAW

5998 ALCALA PARK SAN DIEGO CA 92110

Email: scottanders@sandiego.edu

Status: INFORMATION

MRW & ASSOCIATES, INC.

1814 FRANKLIN ST, STE 720

OAKLAND CA 94612 Email: mrw@mrwassoc.com Status: INFORMATION

CINDY ADAMS

COVANTA ENERGY CORPORATION

40 LANE ROAD FAIRFIELD NJ 7004

FOR: Covanta Energy Corporation Email: cadams@covantaenergy.com

Status: PARTY

CASE ADMINISTRATION

SOUTHERN CALIFORNIA EDISON COMPANY

2244 WALNUT GROVE AVE., RM. 370

ROSEMEAD CA 91770 Email: case.admin@sce.com Status: INFORMATION

MICHAEL P. ALCANTAR ATTORNEY

ALCANTAR & KAHL, LLP

120 MONTGOMERY ST, STE 2200 SAN FRANCISCO CA 94104

FOR: Cogeneration Association of California/Energy

Producers and Users Coalition

Email: mpa@a-klaw.com

Status: PARTY

KEN ALEX PO BOX 944255 1300 I ST, STE 125

SACRAMENTO CA 94244-2550 FOR: People of the State of California

Email: ken.alex@doj.ca.gov Status: STATE-SERVICE

PETER V. ALLEN

THELEN REID BROWN RAYSMAN & STEINER

101 SECOND ST, STE 1800 SAN FRANCISCO CA 94105 Email: pvallen@thelen.com Status: INFORMATION

JASMIN ANSAR

PG&E

MAIL CODE B24A PO BOX 770000

SAN FRANCISCO CA 94177 Email: jxa2@pge.com Status: INFORMATION

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JEANNE B. ARMSTRONG ATTORNEY

GOODIN MACBRIDE SQUERI DAY & LAMPREY

505 SANSOME ST, STE 900 SAN FRANCISCO CA 94111 FOR: Wild Goose Storage LLC

Email: jarmstrong@goodinmacbride.com

Status: PARTY

SAKIS ASTERIADIS

APX INC

1270 FIFTH AVE., STE 15R NEW YORK NY 10029 Email: sasteriadis@apx.com Status: INFORMATION

GARY BARCH

FELLON-MCCORD & ASSOCIATES, INC.

SUITE 2000

9960 CORPORATE CAMPUS DRIVE

LOUISVILLE KY 40223

Email: gbarch@knowledgeinenergy.com

Status: INFORMATION

AIMEE BARNES MANAGER REGULATORY AFFAIRS

ECOSECURITIES 206 W. BONITA AVE **CLAREMONT CA 91711**

Email: aimee.barnes@ecosecurities.com

Status: INFORMATION

CURT BARRY 717 K ST. STE 503 SACRAMENTO CA 95814 Email: curt.barry@iwpnews.com

Status: INFORMATION

PANAMA BARTHOLOMY ADVISOR TO CHAIR

PFANNENSTIEL

CALIFORNIA ENERGY COMMISSION

1516 9TH ST

SACRAMENTO CA 95814

Email: pbarthol@energy.state.ca.us

Status: INFORMATION

R. THOMAS BEACH **CROSSBORDER ENERGY** 2560 NINTH ST, STE 213A BERKELEY CA 94710-2557

FOR: the California Cogeneration Council Email: tomb@crossborderenergy.com

Status: PARTY

JESUS ARREDONDO NRG ENERGY INC. 4600 CARLSBAD BLVD. CARLSBAD CA 99208

Email: jesus.arredondo@nrgenergy.com

Status: INFORMATION

ELIZABETH BAKER

SUMMIT BLUE CONSULTING

1722 14TH ST, STE 230 BOULDER CO 80304

Email: bbaker@summitblue.com

Status: INFORMATION

BARBARA R. BARKOVICH BARKOVICH & YAP, INC. 44810 ROSEWOOD TERRACE MENDOCINO CA 95460

Email: brbarkovich@earthlink.net

Status: INFORMATION

KELLY BARR MANAGER, REGULATORY AFFAIRS &

CONTRACTS

SALT RIVER PROJECT PO BOX 52025, PAB 221 PHOENIX AZ 85072-2025

FOR: Salt River Project Agricultural Improvement and

Power District

Email: kelly.barr@srpnet.com

Status: PARTY

OBADIAH BARTHOLOMY MECHANICAL ENGINEER SACRAMENTO MUNICIPAL UTILITY DISTRICT

M.S. B257 6201 S. ST

SACRAMENTO CA 95817 Email: obartho@smud.org Status: INFORMATION

CARMEN E. BASKETTE SENIOR MGR MARKET

DEVELOPMENT ENERNOC

594 HOWARD ST., STE 400 SAN FRANCISCO CA 94105

FOR: EnerNoc, Inc.

Email: cbaskette@enernoc.com

Status: INFORMATION

SEAN P. BEATTY ATTORNEY **COOPER, WHITE & COOPER, LLP** 201 CALIFORNIA ST., 17TH FLR SAN FRANCISCO CA 94111

Email: sbeatty@cwclaw.com

Status: PARTY

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ALJ Assigned: Jonathan Lakritz on May 9, 2006

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Total number of addressees: 418

BUD BEEBE

SACRAMENTO MUNICIPAL UTIL DIST

MS B257 6201 S ST

SACRAMENTO CA 95817-1899 Email: bbeebe@smud.org Status: INFORMATION

RYAN BERNARDO

BRAUN & BLAISING, P.C.

915 L ST, STE 1270 SACRAMENTO CA 95814

Email: bernardo@braunlegal.com

Status: INFORMATION

SARAH BESERRA

CALIFORNIA REPORTS

39 CASTLE HILL COURT VALLEJO CA 94591

FOR: California Reports Email: sbeserra@sbcglobal.net

Status: INFORMATION

CHARLIE BLAIR

DELTA ENERGY & ENVIRONMENT

15 GREAT STUART ST

EDINBURGH UK EH2 7TP UNITED KINGDOM

Email: charlie.blair@delta-ee.com

Status: INFORMATION

GREG BLUE

ENXCO DEVELOPMENT CORP

5000 EXECUTIVE PARKWAY, STE.140

SAN RAMON CA 94583 Email: gblue@enxco.com Status: INFORMATION

WILLIAM H. BOOTH ATTORNEY

LAW OFFICES OF WILLIAM H. BOOTH

1500 NEWELL AVE, 5TH FLR WALNUT CREEK CA 94596

FOR: California Large Energy Consumers Association

Email: wbooth@booth-law.com

Status: PARTY

KYLE D. BOUDREAUX

FPL GROUP

700 UNIVERSE BLVD., JES/JB JUNO BEACH FL 33408

FOR: FPL Energy Project Management

Email: kyle boudreaux@fpl.com

Status: PARTY

C. SUSIE BERLIN ATTORNEY MC CARTHY & BERLIN, LLP

100 PARK CENTER PLAZA, STE 501

SAN JOSE CA 95113

FOR: Northern California Power Agency

Email: sberlin@mccarthylaw.com

Status: PARTY

CLARK BERNIER

RLW ANALYTICS

1055 BROADWAY, STE G SONOMA CA 95476

Email: clark.bernier@rlw.com Status: INFORMATION

CLARENCE BINNINGER DEPUTY ATTORNEY GENERAL

DEPARTMENT OF JUSTICE

455 GOLDEN GATE AVE. STE 11000

SAN FRANICSCO CA 94102

Email: clarence.binninger@doj.ca.gov

Status: STATE-SERVICE

B. B. BLEVINS EXECUTIVE DIRECTOR

CALIFORNIA ENERGY COMMISSION

1516 9TH ST, MS-39

SACRAMENTO CA 95814

FOR: California Energy Commission Email: bblevins@energy.state.ca.us

Status: STATE-SERVICE

ASHLEE M. BONDS

THELEN REID BROWN RAYSMAN&STEINER LLP

SUITE 1800

101 SECOND ST

SAN FRANCISCO CA 94105

Email: abonds@thelen.com Status: INFORMATION

KEVIN BOUDREAUX

CALPINE POWER AMERICA-CA, LLC

717 TEXAS AVE, STE 1000

HOUSTON TX 77002

FOR: Calpine Power America

Email: kevin.boudreaux@calpine.com

Status: PARTY

KAREN BOWEN ATTORNEY

WINSTON & STRAWN LLP

101 CALIFORNIA ST

SAN FRANCISCO CA 94111

FOR: Mirant California, LLCMirant Delta, LLC, and Mirant

Potrero, LLC

Email: kbowen@winston.com

Status: PARTY

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BIANCA BOWMAN RATE CASE COORDINATOR PACIFIC GAS AND ELECTRIC COMPANY

PG&E MAIL CODE B9A PO BOX 770000

SAN FRANCISCO CA 94177

FOR: PACIFIC GAS AND ELECTRIC COMPANY

Email: BRBc@pge.com Status: INFORMATION

DAVID BRANCHCOMB

BRANCHCOMB ASSOCIATES, LLC

9360 OAKTREE LANE
ORANGEVILLE CA 95662
Email: david@branchcomb.com
Status: INFORMATION

CLARE BREIDENICH 224 1/2 24TH AVE EAST SEATTLE WA 98112

Email: cbreidenich@yahoo.com

Status: INFORMATION

GLORIA BRITTON

ANZA ELECTRIC COOPERATIVE, INC.

58470 HWY 371 PO BOX 391909 ANZA CA 92539

FOR: Anza Electric Cooperative Inc. Email: GloriaB@anzaelectric.org

Status: PARTY

DONALD BROOKHYSER ATTORNEY

ALCANTAR & KAHL 120 MONTGOMERY ST SAN FRANCISCO CA 94104

FOR: Energy Producers and Users Coalition

Email: rsa@a-klaw.com

Status: PARTY

ANDREW BROWN ATTORNEY

ELLISON, SCHNEIDER & HARRIS, LLP

2015 H ST

SACRAMENTO CA 95811

FOR: Constellation New Energy, Inc., Constellation Energy

Commodities Group, Inc.Constellation Genration

Email: abb@eslawfirm.com

Status: PARTY

JACK BURKE LEGISLATIVE AFFAIRS MANAGER CALIFORNIA CENTER FOR SUSTAINABLE ENERGY

8690 BALBOA AVE., STE 100 SAN DIEGO CA 92123

Email: jack.burke@energycenter.org

Status: INFORMATION

ANDREW BRADFORD SENIOR MARKET RESEARCH

ASSOCIATE

FELLON-MCCORD & ASSOCIATES

SUITE 2000

9960 CORPORATE CAMPUS DRIVE

LOUISVILLE KY 40223

Email: andrew.bradford@constellation.com

Status: INFORMATION

DOWNEY BRAND

DOWNEY BRAND

555 CAPITOL MALL, 10TH FLR SACRAMENTO CA 95814-4686 FOR: Sacramento Municipal

Status: PARTY

ADAM BRIONES

THE GREENLINING INSTITUTE
1918 UNIVERSITY AVE. 2ND FLR

BERKELEY CA 94704

Email: adamb@greenlining.org Status: INFORMATION

DONALD BROOKHYSER ALCANTAR & KAHL

1300 SW FIFTH AVE., STE 1750

PORTLAND OR 97210

FOR: Cogeneration Association of California

Email: deb@a-klaw.com

Status: PARTY

DOUGLAS BROOKS NEVADA POWER COMPANY

SIERRA PACIFIC POWER COMPANY

6226 WEST SAHARA AVE LAS VEGAS NV 89151 Email: dbrooks@nevp.com Status: INFORMATION

VERONIQUE BUGNION

POINT CARBON

205 SEVERN RIVER RD SEVERNA PARK MD 21146 Email: vb@pointcarbon.com Status: INFORMATION

THERESA BURKE REGULATORY ANALYSTI

SAN FRANCISCO PUC 1155 MARKET ST, 4TH FLR SAN FRANCISO CA 94103 Email: tburke@sfwater.org Status: INFORMATION

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PAM BURMICH

AIR RESOURCES BOAD 1001 I ST, BOX 2815 SACRAMENTO CA 95812

Email: pburmich@arb.ca.gov Status: STATE-SERVICE

JOSHUA BUSHINSKY WESTERN POLICY COORDINATOR

PEW CENTER ON GLOBAL CLIMATE CHANGE

2101 WILSON BLVD., STE 550 ARLINGTON VA 95816

Email: bushinskyj@pewclimate.org

Status: INFORMATION

Eugene Cadenasso

CALIF PUBLIC UTILITIES COMMISSION

RATEMAKING BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: cpe@cpuc.ca.gov Status: STATE-SERVICE

TRENT A. CARLSON **RELIANT ENERGY**

1000 MAIN ST

HOUSTON TX 77001

Email: tcarlson@reliant.com Status: INFORMATION

IAN CARTER POLICY COORDINATOR-NORTH AMERICA

INTERNATIONAL EMISSIONS TRADING ASSN.

350 SPARKS ST, STE. 809

OTTAWA ON K1R 7S8 CANADA

FOR: International Emissions Trading Association

Email: carter@ieta.org

Status: PARTY

PHIL CARVER

OREGON DEPARTMENT OF ENERGY

625 MARION ST., NE SALEM OR 97301-3737

Email: Philip.H.Carver@state.or.us

Status: INFORMATION

AUDREY CHANG STAFF SCIENTIST

NATURAL RESOURCES DEFENSE COUNCIL

111 SUTTER ST, 20TH FLR SAN FRANCISCO CA 94104 Email: achang@nrdc.org

Status: PARTY

DALLAS BURTRAW 1616 P ST, NW

WASHINGTON DC 20036 Email: burtraw@rff.org Status: INFORMATION

OLOF BYSTROM DIRECTOR, WESTERN ENERGY

CAMBRIDGE ENERGY RESEARCH ASSOCIATES

555 CALIFORNIA ST, 3RD FLR SAN FRANCISCO CA 94104 Email: obystrom@cera.com Status: INFORMATION

Andrew Campbell

CALIF PUBLIC UTILITIES COMMISSION

EXECUTIVE DIVISION 505 VAN NESS AVE RM 5203 SAN FRANCISCO CA 94102-3214

Email: aqc@cpuc.ca.gov Status: STATE-SERVICE

SANDRA CAROLINA

SOUTHWEST GAS CORPORATION

PO BOX 98510

LAS VEGAS NV 89193-8510

Email: sandra.carolina@swgas.com

Status: INFORMATION

SHERYL CARTER

NATURAL RESOURCES DEFENSE COUNCIL

111 SUTTER ST, 20TH FLR SAN FRANCISCO CA 94104 Email: scarter@nrdc.org

Status: INFORMATION

JENNIFER CHAMBERLIN STRATEGIC ENERGY, LLC

2633 WELLINGTON CT. CLYDE CA 94520

FOR: Strategic Energy, LLC

Email: jchamberlin@strategicenergy.com

Status: PARTY

CLIFF CHEN

UNION OF CONCERNED SCIENTIST

2397 SHATTUCK AVE, STE 203

BERKELEY CA 94704

FOR: Union of Concerned Scientists

Email: cchen@ucsusa.org

Status: PARTY

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WILLIAM H. CHEN DIRECTOR, ENERGY POLICY WEST

CONSTELLATION NEW ENERGY, INC.

SPEAR TOWER, 36TH FLOOR

ONE MARKET ST

SAN FRANCISCO CA 94105 Email: bill.chen@constellation.com

Status: PARTY

ED CHIANG

ELEMENT MARKETS, LLC

ONE SUGAR CREEK CENTER BLVD., STE 250

SUGAR LAND TX 77478

Email: echiang@elementmarkets.com

Status: INFORMATION

STEVEN M. COHN ASSISTANT GENERAL COUNSEL

SACRAMENTO MUNICIPAL UTILITY DISTRICT

PO BOX 15830

SACRAMENTO CA 95852-1830

FOR: Sacramento Municipal Utility District

Email: scohn@smud.org

Status: PARTY

ALAN COMNES

WEST COAST POWER

3934 SE ASH ST

PORTLAND OR 97214

Email: alan.comnes@nrgenergy.com

Status: INFORMATION

RICHARD COWART

REGULATORY ASSISTANCE PROJECT

50 STATE ST, STE 3 MONTPELIER VT 5602

Email: rapcowart@aol.com Status: INFORMATION

HOLLY B. CRONIN STATE WATER PROJECT

OPERATIONS DIV

CALIFORNIA DEPARTMENT OF WATER RESOURCES

3310 EL CAMINO AVE., LL-90 SACRAMENTO CA 95821

Email: hcronin@water.ca.gov Status: STATE-SERVICE

RAYMOND J. CZAHAR, C.P.A. CHIEF FINANCIAL

OFFICER

WEST COAST GAS COMPANY

9203 BEATTY DRIVE SACRAMENTO CA 95826 Email: westgas@aol.com

Status: PARTY

BRIAN K. CHERRY DIRECTOR REGULATORY

RELATIONS

PACIFIC GAS AND ELECTRIC COMPANY

77 BEALE ST, B10C

SAN FRANCISCO CA 94106

FOR: Pacific Gas and Electric Company

Email: bkc7@pge.com

Status: PARTY

Theresa Cho

CALIF PUBLIC UTILITIES COMMISSION

EXECUTIVE DIVISION 505 VAN NESS AVE RM 5207 SAN FRANCISCO CA 94102-3214

Email: tcx@cpuc.ca.gov Status: STATE-SERVICE

KENNETH A. COLBURN

SYMBILTIC STRATEGIES, LLC

26 WINTON ROAD MEREDITH NH 3253

Email: kcolburn@symbioticstrategies.com

Status: INFORMATION

LISA A. COTTLE ATTORNEY

WINSTON & STRAWN LLP

101 CALIFORNIA ST, 39TH FLR

SAN FRANCISCO CA 94111

FOR: Mirant California, LLC, Mirant Delta, LLC, and Mirant

Potrero, LLC

Email: lcottle@winston.com

Status: PARTY

BRIAN T. CRAGG ATTORNEY

GOODIN, MACBRIDE, SQUERI, RITCHIE & DAY

505 SANSOME ST, STE 900 SAN FRANCISCO CA 94111

FOR: Independent Energy Producers Association

Email: bcragg@goodinmacbride.com

Status: PARTY

SEBASTIEN CSAPO PROJECT MANAGER

PACIFIC GAS AND ELECTRIC COMPANY

MAIL CODE B9A PO BOX 770000

SAN FRANCISCO CA 94177 Email: sscb@pge.com Status: INFORMATION

KARLA DAILEY **CITY OF PALO ALTO**

UTILITIES DEPARTMENT

BOX 10250

PALO ALTO CA 94303

Email: karla.dailey@cityofpaloalto.org

Status: INFORMATION

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THOMAS DARTON PILOT POWER GROUP, INC.

SUITE 520

8910 UNIVERSITY CENTER LANE

SAN DIEGO CA 92122 FOR: Pilot Power Group

Email: tdarton@pilotpowergroup.com

Status: PARTY

Matthew Deal

CALIF PUBLIC UTILITIES COMMISSION

EXECUTIVE DIVISION 505 VAN NESS AVE RM 5215 SAN FRANCISCO CA 94102-3214

Email: mjd@cpuc.ca.gov Status: STATE-SERVICE

LISA DECARLO STAFF COUNSEL CALIFORNIA ENERGY COMMISSION

1516 9TH ST MS-14 SACRAMENTO CA 95814

Email: Idecarlo@energy.state.ca.us

Status: STATE-SERVICE

RALPH E. DENNIS DIRECTOR, REGULATORY AFFAIRS

FELLON-MCCORD & ASSOCIATES

CONSTELLATION NEWENERGY-GAS DIVISION 9960 CORPORATE CAMPUS DRIVE, STE 2000 LOUISVILLE KY 40223

Email: ralph.dennis@constellation.com

Status: INFORMATION

BALDASSARO DI CAPO 151 BLUE RAVINE ROAD FOLSOM CA 95630

FOR: California Independent System Operator

Email: bdicapo@caiso.com Status: STATE-SERVICE

THOMAS DILL PRESIDENT LODI GAS STORAGE, L.L.C. 1021 MAIN ST STE 1500

HOUSTON TX 77002-6509
Email: trdill@westernhubs.com

Status: PARTY

JEFFREY DOLL

CALIFORNIA AIR RESOURCES BOARD

PO BOX 2815 1001 I ST SACRAMENTO CA 95812 Email: jdoll@arb.ca.gov Status: STATE-SERVICE KYLE L. DAVIS PACIFICORP

825 NE MULTNOMAH ST., STE 2000

PORTLAND OR 97232 FOR: PacifiCorp

Email: kyle.l.davis@pacificorp.com

Status: PARTY

RONALD F. DEATON

LOS ANGELES DEPARTMENT OF WATER & POWER

111 NORTH HOPE ST, RM 1550 LOS ANGELES CA 90012

FOR: Los Angeles Department of Water and Power

Email: ron.deaton@ladwp.com

Status: PARTY

PAUL DELANEY

AMERICAN UTILITY NETWORK (A.U.N.) 10705 DEER CANYON DRIVE

ALTA LOMA CA 91737

FOR: American Utility Network Email: pssed@adelphia.net

Status: PARTY

LEONARD DEVANNA EXECUTIVE VICE PRESIDENT

CLEAN ENERGY SYSTEMS, INC. 11330 SUNCO DRIVE, STE A RANCHO CORDOVA CA 95742 FOR: Clean Energy Systems, Inc.

Email: Irdevanna-rf@cleanenergysystems.com

Status: PARTY

WILLIAM F. DIETRICH ATTORNEY

DIETRICH LAW

2977 YGNACIO VALLEY ROAD, 613 WALNUT CREEK CA 94598-3535 Email: dietrichlaw2@earthlink.net

Status: INFORMATION

TREVOR DILLARD

SIERRA PACIFIC POWER COMPANY

PO BOX 10100

6100 NEIL ROAD, MS S4A50

RENO NV 89520

Email: tdillard@sierrapacific.com

Status: INFORMATION

DANIEL W. DOUGLASS ATTORNEY

DOUGLASS & LIDDELL 21700 OXNARD ST, STE 1030 WOODLAND HILLS CA 91367

FOR: Western Power Trading Forum Email: douglass@energyattorney.com

Status: PARTY

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JASON DUBCHAK ASSOCIATE GENERAL COUNSEL

WILD GOOSE STORAGE LLC

C/O NISKA GAS STORAGE, SUITE 400

607 8TH AVE S.W.

CALGARY AB T2P OA7 CANADA FOR: Wild Goose Storage LLC Email: jason.dubchak@niskags.com

Status: PARTY

PIERRE H. DUVAIR

CALIFORNIA ENERGY COMMISSION

1516 NINTH ST, MS-41 SACRAMENTO CA 95814

Email: pduvair@energy.state.ca.us

Status: STATE-SERVICE

KAREN EDSON

151 BLUE RAVINE ROAD FOLSOM CA 95630 Status: INFORMATION

THOMAS ELGIE

POWEREX CORPORATION

1400, 666 BURRAND ST

VANCOUVER BC V6C 2X8 CANADA

Email: Tom.Elgie@powerex.com

Status: INFORMATION

SANDRA ELY

NEW MEXICO ENVIRONMENT DEPARTMENT

1190 ST FRANCIS DRIVE SANTA FE NM 87501

Email: Sandra.ely@state.nm.us

Status: INFORMATION

STEVE ENDO

PASADENA DEPARTMENT OF WATER & POWER

45 EAST GLENARM ST PASADENA CA 91105

Email: sendo@ci.pasadena.ca.us

Status: INFORMATION

DIANE I. FELLMAN DIRECTOR, REGULATORY AFFAIRS

FPL ENERGY PROJECT MANAGEMENT, INC.

234 VAN NESS AVE

SAN FRANCISCO CA 94102

FOR: FPL Energy Project Management Inc

Email: Diane Fellman@fpl.com

Status: INFORMATION

KIRBY DUSEL

NAVIGANT CONSULTING, INC.

3100 ZINFANDEL DRIVE, STE 600 RANCHO CORDOVA CA 95670

Email: kdusel@navigantconsulting.com

Status: INFORMATION

HARVEY EDER

PUBLIC SOLAR POWER COALITION

1218 12TH ST., 25

SANTA MONICA CA 90401

Email: harveyederpspc.org@hotmail.com

Status: INFORMATION

DENNIS M.P. EHLING ATTORNEY

KIRKPATRICK & LOCKHART NICHOLSON GRAHAM

10100 SANTA MONICA BLVD., 7TH FLR

LOS ANGELES CA 90067 FOR: City of Vernon Email: dehling@klng.com

Status: PARTY

SHAUN ELLIS

2183 UNION ST

SAN FRANCISCO CA 94123 Email: sellis@fypower.org Status: INFORMATION

NADAV ENBAR

ENERGY INSIGHTS

1750 14TH ST, STE 200 BOULDER CO 80302

Email: nenbar@energy-insights.com

Status: INFORMATION

SAEED FARROKHPAY

FEDERAL ENERGY REGULATORY COMMISSION

110 BLUE RAVINE RD., STE 107

FOLSOM CA 95630

Email: saeed.farrokhpay@ferc.gov

Status: INFORMATION

Julie A. Fitch

CALIF PUBLIC UTILITIES COMMISSION

DIVISION OF STRATEGIC PLANNING

505 VAN NESS AVE RM 5119 SAN FRANCISCO CA 94102-3214

Email: jf2@cpuc.ca.gov Status: STATE-SERVICE

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MICHEL FLORIO ATTORNEYS AT LAW 711 VAN NESS AVE., STE. 350 SAN FRANCISCO CA 94102 Email: mflorio@turn.org

Status: INFORMATION

Cathleen A. Fogel

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: cf1@cpuc.ca.gov Status: STATE-SERVICE

ORLANDO B. FOOTE, III ATTORNEY HORTON, KNOX, CARTER & FOOTE

895 BROADWAY, STE 101 EL CENTRO CA 92243 Email: ofoote@hkcf-law.com Status: INFORMATION

JONATHAN FORRESTER

PG&E

MAIL CODE N13C PO BOX 770000

SAN FRANCISCO CA 94177 Email: JDF1@PGE.COM Status: INFORMATION

NORMAN J. FURUTA ATTORNEY FEDERAL EXECUTIVE AGENCIES

1455 MARKET ST., STE 1744 SAN FRANCISCO CA 94103-1399 Email: norman.furuta@navy.mil

Status: INFORMATION

LAURA I. GENAO ATTORNEY
SOUTHERN CALIFORNIA EDISON

PO BOX 800

2244 WALNUT GROVE AVE ROSEMEAD CA 91770

Email: Laura.Genao@sce.com

Status: PARTY

JULIE GILL EXTERNAL AFFAIRS MANAGER
CALIFORNIA INDEPENDENT SYSTEM OPERATOR

151 BLUE RAVINE ROAD FOLSOM CA 95630

FOR: CAISO Email: jgill@caiso.com Status: STATE-SERVICE RYAN FLYNN PACIFICORP

825 NE MULTNOMAH ST, 18TH FLR

PORTLAND OR 97232

Email: ryan.flynn@pacificorp.com

Status: PARTY

CYNTHIA A. FONNER SENIOR COUNSEL CONSTELLATION ENERGY GROUP INC

550 W. WASHINGTON ST, STE 300

CHICAGO IL 60661

FOR: Constellation Energy Group Inc Email: Cynthia.A.Fonner@constellation.com

Status: PARTY

Jamie Fordyce

CALIF PUBLIC UTILITIES COMMISSION DIVISION OF STRATEGIC PLANNING 505 VAN NESS AVE AREA 5-B SAN FRANCISCO CA 94102-3214

Email: jbf@cpuc.ca.gov Status: STATE-SERVICE

KEVIN FOX

WILSON SONSINI GOODRICH & ROSATI

ONE MARKET ST, SPEAR TOWER, 3300 SAN FRANCISCO CA 94105

Email: kfox@wsgr.com Status: INFORMATION

MICHELLE GARCIA
AIR RESOURCES BOARD

1001 10TH ST

SACRAMENTO CA 95814 Email: mgarcia@arb.ca.gov Status: STATE-SERVICE

FIJI GEORGE

EL PASO CORPORATION

EL PASO BUILDING PO BOX 2511 HOUSTON TX 77252

Email: fiji.george@elpaso.com Status: INFORMATION

Anne Gillette

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: aeg@cpuc.ca.gov Status: STATE-SERVICE

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ALJ Assigned: Jonathan Lakritz on May 9, 2006

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MELANIE GILLETTE ENERNOC, INC. 115 HAZELMERE DRIVE FOLSOM CA 95630

Email: mgillette@enernoc.com Status: INFORMATION

HOWARD V. GOLUB
NIXON PEABODY LLP

2 EMBARCADERO CENTER, STE. 2700

SAN FRANCISCO CA 94111

Email: hgolub@nixonpeabody.com

Status: INFORMATION

JAIRAM GOPAL

SOUTHERN CALIFORNIA EDISON 2244 WALNUT GROVE, GO1-C ROSEMEAD CA 91770

Email: Jairam.gopal@sce.com Status: INFORMATION

JEFFREY P. GRAY

DAVIS WRIGHT TREMAINE, LLP 505 MONTGOMERY ST, STE 800 SAN FRANCISCO CA 94111-6533 FOR: Calpine Corporation Email: jeffgray@dwt.com

Status: PARTY

Jacqueline Greig

CALIF PUBLIC UTILITIES COMMISSION

ENERGY COST OF SERVICE & NATURAL GAS BRANCH

505 VAN NESS AVE RM 4102 SAN FRANCISCO CA 94102-3214

Email: jnm@cpuc.ca.gov Status: STATE-SERVICE

KAREN GRIFFIN EXECUTIVE OFFICE CALIFORNIA ENERGY COMMISSION

1516 9TH ST, MS 39 SACRAMENTO CA 95814

Email: kgriffin@energy.state.ca.us

Status: STATE-SERVICE

YVONNE GROSS REGULATORY POLICY MANAGER

SEMPRA ENERGY

HQ08C 101 ASH ST SAN DIEGO CA 92103

Email: ygross@sempraglobal.com

Status: INFORMATION

ANNETTE GILLIAM ATTORNEY

SOUTHERN CALIFORNIA EDISON COMPANY

2244 WALNUT GROVE AVE ROSEMEAD CA 91770

FOR: Southern California Edison Email: annette.gilliam@sce.com

Status: PARTY

HAYLEY GOODSON ATTORNEY

THE UTILITY REFORM NETWORK

711 VAN NESS AVE, STE 350 SAN FRANCISCO CA 94102 Email: hayley@turn.org Status: INFORMATION

KASSANDRA GOUGH

CALPINE CORPORATION

1127 11TH ST, STE 242 SACRAMENTO CA 95814 FOR: Calpine Corporation Email: kgough@calpine.com

Email: kgough@calpine.com Status: INFORMATION

JOSEPH GRECO VICE PRESIDENT - WESTERN REGION

CAITHNESS ENERGY, LLC.

9590 PROTOTYPE COURT, STE 200

RENO NV 89521

Email: jgreco@caithnessenergy.com

Status: INFORMATION

KRISTIN GRENFELL PROJECT ATTORNEY, CALIF.

ENERGY PROGRAM

NATURAL RESOURCES DEFENSE COUNCIL

111 SUTTER ST, 20TH FLR SAN FRANCISCO CA 94104 Email: kgrenfell@nrdc.org

Status: PARTY

ANN G. GRIMALDI

MCKENNA LONG & ALDRIDGE LLP

101 CALIFORNIA ST, 41ST FLR SAN FRANCISCO CA 94111

FOR: Center for Energy and Economic Development

Email: agrimaldi@mckennalong.com

Status: PARTY

ELSTON K. GRUBAUGH

IMPERIAL IRRIGATION DISTRICT

333 EAST BARIONI BLVD. IMPERIAL CA 92251

Email: ekgrubaugh@iid.com Status: INFORMATION

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ELIZABETH W. HADLEY CITY OF REDDING 777 CYPRESS AVE REDDING CA 96001

Email: ehadley@reupower.com Status: INFORMATION

TOM HAMILTON MANAGING PARTNER ENERGY CONCIERGE SERVICES
321 MESA LILA RD

GLENDALE CA 91208

Email: THAMILTON5@CHARTER.NET

Status: INFORMATION

ANDREW L. HARRIS

PACIFIC GAS & ELECTRIC COMPANY PO BOX 770000 MAIL CODE B9A SAN FRANCISCO CA 94177 Email: alho@pge.com

Status: PARTY

JEFFERY D. HARRIS ATTORNEY
ELLISON, SCHNEIDER & HARRIS LLP

2015 H ST

SACRAMENTO CA 95814

FOR: Dynegy

Email: jdh@eslawfirm.com

Status: PARTY

AUDRA HARTMANN **DYNEGY INC**.

980 NINTH ST, STE 2130 SACRAMENTO CA 95814

Email: Audra.Hartmann@Dynegy.com

Status: INFORMATION

LYNN HAUG

ELLISON, SCHNEIDER & HARRIS, LLP

2015 H ST

SACRAMENTO CA 95816 Email: Imh@eslawfirm.com Status: INFORMATION

DAN HECHT SEMPRA ENERGY 101 ASH ST

SAN DIEGO CA 92101

Email: dhecht@sempratrading.com

Status: PARTY

JEFFREY L. HAHN

COVANTA ENERGY CORPORATION

876 MT. VIEW DRIVE LAFAYETTE CA 94549

Email: jhahn@covantaenergy.com

Status: INFORMATION

PETER W. HANSCHEN ATTORNEY
MORRISON & FOERSTER, LLP

101 YGNACIO VALLEY ROAD, STE 450

WALNUT CREEK CA 94596 Email: phanschen@mofo.com Status: INFORMATION

ARNO HARRIS

RECURRENT ENERGY, INC. 220 HALLECK ST., STE 220 SAN FRANCISCSO CA 94129 Email: arno@recurrentenergy.com

Status: INFORMATION

ANITA HART SENIOR SPECIALIST/STATE

REGULATORYAFFAIR

SOUTHWEST GAS CORPORATION 5241 SPRING MOUNTAIN ROAD

LAS VEGAS NV 89193

Email: anita.hart@swgas.com Status: INFORMATION

KERRY HATTEVIK

MIRANT CORPORATION

696 WEST 10TH ST PITTSBURG CA 94565 FOR: Mirant Corporation

Email: kerry.hattevik@mirant.com

Status: PARTY

MARCEL HAWIGER

THE UTILITY REFORM NETWORK

711 VAN NESS AVE, STE 350 SAN FRANCISCO CA 94102 Email: marcel@turn.org

Status: PARTY

RICHARD HELGESON

SOUTHERN CALIFORNIA PUBLIC POWER AUTHORI

225 S. LAKE AVE., STE 1250 PASADENA CA 91101

FOR: Southern California Public Power Authority

Email: rhelgeson@scppa.org

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UDI HELMAN

CALIFORNIA INDEPENDENT SYS. OPER. CORP

151 BLUE RAVINE ROAD FOLSOM CA 95630

FOR: California Independent System Operator Corporation

Email: UHelman@caiso.com

Status: PARTY

JOSEPH HENRI 31 MIRAMONTE ROAD WALNUT CREEK CA 94597 Email: josephhenri@hotmail.com

Status: INFORMATION

SETH HILTON ATTORNEY

STOEL RIVES

111 SUTTER ST., STE 700 SAN FRANCISCO CA 94104 FOR: El Paso Natural Gas Email: sdhilton@stoel.com Status: INFORMATION

ALDYN HOEKSTRA

PACE GLOBAL ENERGY SERVICES 420 WEST BROADWAY, 4TH FLR

SAN DIEGO CA 92101

Email: aldyn.hoekstra@paceglobal.com

Status: INFORMATION

LAURIE TEN HOPE ADVISOR TO COMMISSIONER

BYRON

CALIFORNIA ENERGY COMMISSION

1516 9TH ST, MS-32

SACRAMENTO CA 95814-5512 Email: Itenhope@energy.state.ca.us

Status: INFORMATION

RANDY S. HOWARD

LOS ANGELES DEPT. OF WATER AND POWER

111 NORTH HOPE ST, RM 921 LOS ANGELES CA 90012 Email: randy.howard@ladwp.com

Status: INFORMATION

JOHN P. HUGHES MANAGER, REGULATORY AFFAIRS

SOUTHERN CALIFORNIA EDISON COMPANY

601 VAN NESS AVE, STE. 2040 SAN FRANCISCO CA 94102 Email: john.hughes@sce.com

Status: PARTY

TIM HEMIG

NRG ENERGY, INC. 1819 ASTON AVE, STE 105

CARLSBAD CA 92008

Email: tim.hemig@nrgenergy.com

Status: INFORMATION

CHRISTOPHER A. HILEN ASSISTANT GENERAL

COUNSEL

SIERRA PACIFIC POWER COMPANY

6100 NEIL ROAD RENO NV 89511

Email: chilen@sppc.com Status: INFORMATION

GARY HINNERS

RELIANT ENERGY, INC.

PO BOX 148

HOUSTON TX 77001-0148 Email: ghinners@reliant.com Status: INFORMATION

J. ANDREW HOERNER

REDEFINING PROGRESS

1904 FRANKLIN ST OAKLAND CA 94612

Email: hoerner@redefiningprogress.org

Status: PARTY

GEORGE HOPLEY

BARCLAYS CAPITAL

200 PARK AVE

NEW YORK NY 10166

Email: george.hopley@barcap.com

Status: INFORMATION

DAVID L. HUARD ATTORNEY

MANATT, PHELPS & PHILLIPS, LLP

11355 WEST OLYMPIC BLVD LOS ANGELES CA 90064

FOR: Los Angeles County/Trans Canada Pipelines

Email: dhuard@manatt.com

Status: PARTY

STEVEN HUHMAN

MORGAN STANLEY CAPITAL GROUP INC.

2000 WESTCHESTER AVE PURCHASE NY 10577

Email: steven.huhman@morganstanley.com

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RAYMOND HUNG

PG&E

PO BOX 770000 MAIL CODE B9A SAN FRANCISCO CA 94177 Email: RHHJ@pge.com

Status: INFORMATION

CAROL J. HURLOCK

CALIFORNIA DEPT. OF WATER RESOURCES

JOINT OPERATIONS CENTER 3310 EL CAMINO AVE. RM 300 SACRAMENTO CA 95821 Email: hurlock@water.ca.gov Status: STATE-SERVICE

Judith Ikle

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE RM 4012 SAN FRANCISCO CA 94102-3214 FOR: Energy Resources Branch

Email: jci@cpuc.ca.gov Status: STATE-SERVICE

PETER JAZAYERI

STROOCK & STROOCK & LAVAN LLP

2029 CENTURY PARK EAST, STE 1800

LOS ANGELES CA 90067 Email: pjazayeri@stroock.com Status: INFORMATION

JOHN JENSEN PRESIDENT **MOUNTAIN UTILITIES**

PO BOX 205

KIRKWOOD CA 95646 FOR: Mountain Utilities

Email: jjensen@kirkwood.com Status: PARTY

LEILANI JOHNSON KOWAL

LOS ANGELES DEPT. OF WATER AND POWER

111 N. HOPE ST, RM 1050 LOS ANGELES CA 90012

Email: leilani.johnson@ladwp.com

Status: INFORMATION

MARC D. JOSEPH

ADAMS BRADWELL JOSEPH & CARDOZO

601 GATEWAY BLVD. STE 1000 SOUTH SAN FRANCISCO CA 94080

FOR: California Unions for Reliable Energy&Coalition of

California Utility Employees

Email: mdjoseph@adamsbroadwell.com

Status: INFORMATION

TAMLYN M. HUNT ENERGY PROGRAM DIRECTOR

COMMUNITY ENVIRONMENTAL COUNCIL

26 W. ANAPAMU ST., 2ND FLR SANTA BARBARA CA 93101

FOR: Community Environmental Council

Email: thunt@cecmail.org

Status: PARTY

MICHAEL A. HYAMS POWER ENTERPRISE-

REGULATORY AFFAIRS

SAN FRANCISCO PUBLIC UTILITIES COMM

1155 MARKET ST., 4TH FLR SAN FRANCISCO CA 94103 Email: mhyams@sfwater.org Status: INFORMATION

AKBAR JAZAYEIRI DIRECTOR OF REVENUE &

TARRIFFS

SOUTHERN CALIFORNIA EDISON COMPANY

2244 WALNUT GROVE AVE. RM 390

ROSEMEAD CA 91770

FOR: Southern California Edison Company

Email: akbar.jazayeri@sce.com

Status: PARTY

BRUNO JEIDER

BURBANK WATER & POWER

164 WEST MAGNOLIA BLVD.

BURBANK CA 91502

Email: bjeider@ci.burbank.ca.us

Status: INFORMATION

KENNETH C. JOHNSON

KENNETH CARLISLE JOHNSON

2502 ROBERTSON RD SANTA CLARA CA 95051

FOR: Kenneth Carlisle Johnson Email: kjinnovation@earthlink.net

Status: PARTY

BRIAN M. JONES

M. J. BRADLEY & ASSOCIATES, INC.

47 JUNCTION SQUARE DRIVE

CONCORD MA 1742

Email: bjones@mjbradley.com Status: INFORMATION

EVELYN KAHL ATTORNEY ALCANTAR & KAHL, LLP

120 MONTGOMERY ST, STE 2200 SAN FRANCISCO CA 94104

FOR: Energy Producers & Users Coalition

Email: ek@a-klaw.com

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Sara M. Kamins

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: smk@cpuc.ca.gov Status: STATE-SERVICE

JOSEPH M. KARP ATTORNEY WINSTON & STRAWN LLP

101 CALIFORNIA ST

SAN FRANCISCO CA 94111-5802 FOR: California Cogeneration Council

Email: jkarp@winston.com

Status: PARTY

ADAM J. KATZ

MCDERMOTT WILL & EMERY LLP

600 13TH ST, NW.

WASHINGTON DC 20005

FOR: Morgan Stanley Capital Group, Inc.

Email: ajkatz@mwe.com

Status: PARTY

CURTIS L. KEBLER
J. ARON & COMPANY

SUITE 2600

2121 AVE OF THE STARS LOS ANGELES CA 90067

FOR: J. Aron

Email: curtis.kebler@gs.com

Status: PARTY

CAROLYN M. KEHREIN

ENERGY MANAGEMENT SERVICES

1505 DUNLAP COURT DIXON CA 95620-4208

Email: cmkehrein@ems-ca.com

Status: INFORMATION

STEVEN KELLY

INDEPENDENT ENERGY PRODUCERS

1215 K ST, STE 900 SACRAMENTO CA 95814 Email: steven@iepa.com

Status: INFORMATION

KHURSHID KHOJA ASSOCIATE

THELEN REID BROWN RAYSMAN & STEINER

101 SECOND ST, STE 1800 SAN FRANCISCO CA 94105 Email: kkhoja@thelenreid.com Status: INFORMATION CATHY A. KARLSTAD

SOUTHERN CALIFORNIA EDISON COMPANY

2244 WALNUT GROVE AVE. ROSEMEAD CA 91770

FOR: Southern California Edison Company

Email: cathy.karlstad@sce.com

Status: PARTY

SUE KATELEY EXECUTIVE DIRECTOR

CALIFORNIA SOLAR ENERGY INDUSTRIES ASSN

PO BOX 782

RIO VISTA CA 94571 Email: info@calseia.org Status: INFORMATION

JAMES W. KEATING **BP AMERICA, INC.**

MAIL CODE 603-1E 150 W. WARRENVILLE RD. NAPERVILLE IL 60563

Email: james.keating@bp.com Status: INFORMATION

RANDALL W. KEEN ATTORNEY
MANATT PHELPS & PHILLIPS, LLP

11355 WEST OLYMPIC BLVD. LOS ANGELES CA 90064 FOR: Los Angeles County Email: rkeen@manatt.com Status: INFORMATION

ALEXIA C. KELLY

THE CLIMATE TRUST

65 SW YAMHILL ST, STE 400 PORTLAND OR 97204

Email: akelly@climatetrust.org Status: INFORMATION

DOUGLAS K. KERNER ATTORNEY ELLISON, SCHNEIDER & HARRIS, LLP

2015 H ST

SACRAMENTO CA 95814 Email: dkk@eslawfirm.com Status: INFORMATION

KIM KIENER

504 CATALINA BLVD. SAN DIEGO CA 92106 Email: kmkiener@fox.net Status: INFORMATION

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THOMAS S. KIMBALL

MODESTO IRRIGATION DISTRICT

1231 11TH ST

MODESTO CA 95354 Email: tomk@mid.org Status: INFORMATION

GREGORY KLATT ATTORNEY DOUGLASS & LIDDELL

411 E. HUNTINGTON DRIVE, STE. 107-356

ARCADIA CA 91006

FOR: Alliance for Retail Energy Markets

Email: klatt@energyattorney.com

Status: PARTY

STEPHEN G. KOERNER, ESQ.

EL PASO CORPORATION WESTERN PIPELINES

2 NORTH NEVADA AVE

COLORADO SPRINGS CO 80903

FOR: El Paso Natural Gas Company/Mojave Pipeline

Company

Email: steve.koerner@elpaso.com

Status: PARTY

AVIS KOWALEWSKI

CALPINE CORPORATION 3875 HOPYARD ROAD, STE 345

PLEASANTON CA 94588

Email: kowalewskia@calpine.com

Status: PARTY

CATHERINE M. KRUPKA

MCDERMOTT WILL AND EMERY LLP

600 THIRTEEN STREEET, NW WASHINGTON DC 20005

FOR: Morgan Stanley Capital Group, Inc.

Email: ckrupka@mwe.com

Status: PARTY

STEPHANIE LA SHAWN

PACIFIC GAS AND ELECTRIC COMPANY

PO BOX 770000, MAIL CODE B9A SAN FRANCISCO CA 94177 Email: S1L7@pge.com

Status: INFORMATION

Jonathan Lakritz

CALIF PUBLIC UTILITIES COMMISSION

DIVISION OF ADMINISTRATIVE LAW JUDGES

505 VAN NESS AVE RM 5020 SAN FRANCISCO CA 94102-3214

Email: jol@cpuc.ca.gov Status: STATE-SERVICE DANIEL A. KING SEMPRA ENERGY 101 ASH ST, HQ 12

SAN DIEGO CA 92101 Email: daking@sempra.com

Status: PARTY

JOSEPH R. KLOBERDANZ
SAN DIEGO GAS & ELECTRIC

PO BOX 1831

SAN DIEGO CA 92112

Email: jkloberdanz@semprautilities.com

Status: INFORMATION

GREGORY KOISER

CONSTELLATION NEW ENERGY, INC.

350 SOUTH GRAND AVE, STE 3800

LOS ANGELES CA 90071

FOR: Constellation New Energy

Email: gregory.koiser@constellation.com

Status: PARTY

STEVE KROMER

3110 COLLEGE AVE, APT 12

BERKELEY CA 94705

FOR: Steve Kromer Email: stevek@kromer.com

Status: INFORMATION

LARS KVALE

CENTER FOR RESOURCE SOLUTIONS

PRESIDIO BUILDIING 97

PO BOX 39512

SAN FRANCISCO CA 94129

FOR: Center for Resource Solution

Email: lars@resource-solutions.org

Status: PARTY

GERALD L. LAHR

ABAG POWER

101 EIGHTH ST

OAKLAND CA 94607

FOR: Association of Bay Area Governments

Email: JerryL@abag.ca.gov Status: INFORMATION

MIKE LAMOND

ALPINE NATURAL GAS OPERATING CO. #1 LLC

PO BOX 550

VALLEY SPRINGS CA 95252

Email: Mike@alpinenaturalgas.com

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JOHN LAUN **APOGEE INTERACTIVE, INC.**

1220 ROSECRANS ST., STE 308

SAN DIEGO CA 92106 Email: jlaun@apogee.net Status: INFORMATION

VITALY LEE

AES ALAMITOS, LLC

690 N. STUDEBAKER ROAD LONG BEACH CA 90803 FOR: AES Southland LLC Email: vitaly.lee@aes.com

Status: PARTY

NICHOLAS LENSSEN ENERGY INSIGHTS 1750 14TH ST, STE 200 BOULDER CO 80302

Email: nlenssen@energy-insights.com

Status: INFORMATION

DONALD C. LIDDELL, P.C. DOUGLASS & LIDDELL

2928 2ND AVE

SAN DIEGO CA 92103

FOR: California Natural Gas Vehicle Association

Email: liddell@energyattorney.com

Status: PARTY

STEVEN G. LINS GENERAL COUNSEL GLENDALE WATER AND POWER

613 EAST BROADWAY, STE 220 GLENDALE CA 91206-4394 Email: slins@ci.glendale.ca.us Status: INFORMATION

Clatao. IIII CIIII/IIII

GRACE LIVINGSTON-NUNLEY ASSISTANT PROJECT

MANAGER

PACIFIC GAS AND ELECTRIC COMPANY

PO BOX 770000 MAIL CODE B9A SAN FRANCISCO CA 94177 Email: gxl2@pge.com Status: INFORMATION

JODY S. LONDON

JODY LONDON CONSULTING

PO BOX 3629 OAKLAND CA 94609

Email: jody_london_consulting@earthlink.net

Status: INFORMATION

Diana L. Lee

CALIF PUBLIC UTILITIES COMMISSION

LEGAL DIVISION

505 VAN NESS AVE RM 4300 SAN FRANCISCO CA 94102-3214

FOR: DRA

Email: dil@cpuc.ca.gov

Status: PARTY

BRENDA LEMAY DIRECTOR OF PROJECT

DEVELOPMENT

HORIZON WIND ENERGY 1600 SHATTUCK, STE 222 BERKELEY CA 94709

Email: brenda.lemay@horizonwind.com

Status: INFORMATION

JOHN W. LESLIE ATTORNEY

LUCE, FORWARD, HAMILTON & SCRIPPS, LLP

11988 EL CAMINO REAL, STE 200

SAN DIEGO CA 92130 Email: jleslie@luce.com Status: INFORMATION

KAREN LINDH

CALIFORNIA ONSITE GENERATION

7909 WALERGA ROAD, NO. 112, PMB 119

ANTELOPE CA 95843 Email: karen@klindh.com Status: INFORMATION

STEVEN A. LIPMAN

STEVEN LIPMAN CONSULTING

500 N. ST 1108

SACRAMENTO CA 95814 FOR: Lipman Consulting

Email: steven@lipmanconsulting.com

Status: INFORMATION

BILL LOCKYER STATE ATTORNEY GENERAL STATE OF CALIFORNIA, DEPT OF JUSTICE

PO BOX 944255

SACRAMENTO CA 94244-2550 Email: ken.alex@doj.ca.gov Status: STATE-SERVICE

LAD LORENZ V.P. REGULATORY AFFAIRS

SEMPRA UTILITIES

601 VAN NESS AVE, STE 2060 SAN FRANCISCO CA 94102 Email: llorenz@semprautilities.com

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BARRY LOVELL 15708 POMERADO RD., STE 203

POWAY CA 92064 Email: bjl@bry.com Status: INFORMATION

ED LUCHA CASE COORDINATOR
PACIFIC GAS AND ELECTRIC COMPANY

PO BOX 770000, MAIL CODE B9A SAN FRANCISCO CA 94177 Email: ELL5@pge.com Status: INFORMATION

LYNELLE LUND

COMMERCE ENERGY, INC. 600 ANTON BLVD., STE 2000 COSTA MESA CA 92626 FOR: Commerce Energy, Inc.

Email: Ilund@commerceenergy.com

Status: PARTY

DOUGLAS MACMULLLEN CHIEF, POWER PLANNING

SECTION

CA DEPARTMENT OF WATER RESOURCES

3310 EL CAMINO AVE., RM 356 SACRAMENTO CA 95821 Email: dmacmull@water.ca.gov Status: INFORMATION

AMBER MAHONE

ENERGY & ENVIRONMENTAL ECONOMICS, INC.

101 MONTGOMERY ST, STE 1600 SAN FRANCISCO CA 94104 Email: amber@ethree.com Status: INFORMATION

DEREK MARKOLF

CALIFORNIA CLIMATE ACTION REGISTRY

515 S. FLOWER ST, STE 1640 LOS ANGELES CA 90071 Email: derek@climateregistry.org

Status: INFORMATION

CHRIS MARNAY BERKELEY LAB

1 CYCLOTRON RD MS 90R4000 BERKELEY CA 94720-8136 Email: C_Marnay@lbl.gov Status: INFORMATION BOB LUCAS

LUCAS ADVOCATES
1121 L ST, STE 407
SACRAMENTO CA 95814
Email: Bob.lucas@calobby.com

Status: INFORMATION

JANE E. LUCKHARDT ATTORNEY

DOWNEY BRAND LLP 555 CAPITOL MALL, 10TH FLR SACRAMENTO CA 95814

FOR: Sacramento Municipal Utility District Email: jluckhardt@downeybrand.com

Status: PARTY

MARY LYNCH VP - REGULATORY AND LEGISLATIVE

AFFAIRS

CONSTELLATION ENERGY COMMODITIES GROUP

2377 GOLD MEDAL WAY, STE 100

GOLD RIVER CA 95670

Email: mary.lynch@constellation.com

Status: PARTY

ANNE-MARIE MADISON

TRANSALTA ENERGY MARKETING INC.

222 SW COLUMBIA ST, STE 1105

PORTLAND OR 97201

FOR: Market Access & Trade Policy Transalta Energy

Marketing (US) Inc.

Email: Anne-Marie Madison@TransAlta.com

Status: INFORMATION

ANNABELLE MALINS CONSUL-SCIENCE AND

TECHNOLOGY

BRITISH CONSULATE-GENERAL ONE SANSOME ST, STE 850

SAN FRANCISCO CA 94104 Email: annabelle.malins@fco.gov.uk

Status: INFORMATION

Status: INFORMATION

Jaclyn Marks

CALIF PUBLIC UTILITIES COMMISSION

EXECUTIVE DIVISION 505 VAN NESS AVE RM 5306 SAN FRANCISCO CA 94102-3214

Email: jm3@cpuc.ca.gov Status: STATE-SERVICE

JULIE L. MARTIN WEST ISO COORDINATOR

NORTH AMERICA GAS AND POWER

BP ENERGY COMPANY 501 WESTLAKE PARK BLVD. HOUSTON TX 77079

Email: julie.martin@bp.com Status: INFORMATION

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MARTIN A. MATTES NOSSAMAN, GUTHNER, KNOX & ELLIOTT, LLP

50 CALIFORNIA ST,STE 3400 SAN FRANCISCO CA 94111 Email: mmattes@nossaman.com

Status: INFORMATION

MICHAEL MAZUR CHIEF TECHNICAL OFFICER

3 PHASES RENEWABLES, LLC 2100 SEPULVEDA BLVD., STE 37 MANHATTAN BEACH CA 90266 FOR: 3 Phases Energy Services

Email: mmazur@3phasesRenewables.com

Status: PARTY

THOMAS MCCABE

EDISON MISSION ENERGY

18101 VON KARMAN AVE., STE 1700

IRVINE CA 92612 Status: INFORMATION

BARRY F. MCCARTHY ATTORNEY MCCARTHY & BERLIN, LLP 100 PARK CENTER PLAZA, STE 501

SAN JOSE CA 95113

FOR: Northern California Generation Coalition

Email: bmcc@mccarthylaw.com

Status: PARTY

KEITH R. MCCREA ATTORNEY

SUTHERLAND, ASBILL & BRENNAN, LLP

1275 PENNSYLVANIA AVE., NW WASHINGTON DC 20004-2415

FOR: California Manufacturers & Technology Assn.

Email: keith.mccrea@sablaw.com

Status: PARTY

JEN MCGRAW

CENTER FOR NEIGHBORHOOD TECHNOLOGY

PO BOX 14322

SAN FRANCISCO CA 94114

Email: jen@cnt.org Status: INFORMATION

RACHEL MCMAHON

CEERT

1100 11TH ST, STE 311 SACRAMENTO CA 95814 Email: rachel@ceert.org Status: INFORMATION DANIELLE MATTHEWS SEPERAS

CALPINE CORPORATION

1127 11TH ST, STE 242
SACRAMENTO CA 95814
FOR: Calpine Corporation
Email: dseperas@calpine.com
Status: INFORMATION

ANDREW MCALLISTER DIRECTOR OF OPERATIONS CALIFORNIA CENTER FOR SUSTAINABLE ENERGY

8690 BALBOA AVE., STE 100 SAN DIEGO CA 92123

Email: andrew.mcallister@energycenter.org

Status: INFORMATION

RICHARD MCCANN, PH.D

M. CUBED

2655 PORTAGE BAY, STE 3

DAVIS CA 95616

Email: rmccann@umich.edu Status: INFORMATION

Wade McCartney

CALIF PUBLIC UTILITIES COMMISSION

DIVISION OF STRATEGIC PLANNING

770 L ST, STE 1050 SACRAMENTO CA 95814 Email: wsm@cpuc.ca.gov Status: STATE-SERVICE

MARY MCDONALD DIRECTOR OF STATE AFFAIRS

CALIFORNIA INDEPENDENT SYSTEM OPERATOR

151 BLUE RAVINE ROAD FOLSOM CA 95630 FOR: CAISO

Status: STATE-SERVICE

BRUCE MCLAUGHLIN BRAUN & BLAISING, P.C.

915 L ST, STE 1270 SACRAMENTO CA 95814

FOR: California Municipal Utilities Association

Email: mclaughlin@braunlegal.com

Status: PARTY

BRIAN MCQUOWN RELIANT ENERGY

7251 AMIGO ST., STE 120 LAS VEGAS NV 89119

Email: bmcquown@reliant.com

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ELENA MELLO

SIERRA PACIFIC POWER COMPANY

6100 NEIL ROAD RENO NV 89520

Email: emello@sppc.com Status: INFORMATION

STEVEN S. MICHEL

WESTERN RESOURCE ADVOCATES

2025 SENDA DE ANDRES SANTA FE NM 87501

FOR: Western Resource Advocates Email: smichel@westernresources.org

Status: PARTY

KAREN NORENE MILLS ATTORNEY

CALIFORNIA FARM BUREAU FEDERATION

2300 RIVER PLAZA DRIVE SACRAMENTO CA 95833 Email: kmills@cfbf.com Status: INFORMATION

SAMARA MINDEL REGULATORY AFFAIRS ANALYST

FELLON-MCCORD & ASSOCIATES

9960 CORPORATE CAMPUS DRIVE, STE 2000

LOUISVILLE KY 40223

Email: smindel@knowledgeinenergy.com

Status: INFORMATION

DAVID L. MODISETTE EXECUTIVE DIRECTOR

CALIFORNIA ELECTRIC TRANSP. COALITION

1015 K ST, STE 200 SACRAMENTO CA 95814 Email: dave@ppallc.com Status: INFORMATION

Rahmon Momoh

CALIF PUBLIC UTILITIES COMMISSION

ELECTRICITY RESOURCES & PRICING BRANCH 505 VAN NESS AVE RM 4205 SAN FRANCISCO CA 94102-3214

Email: rmm@cpuc.ca.gov Status: STATE-SERVICE

ROGER C. MONTGOMERY VICE PRESIDENT, PRICING

SOUTHWEST GAS CORPORATION

PO BOX 98510

LAS VEGAS NV 89193-8510

Email: roger.montgomery@swgas.com

Status: PARTY

DARYL METZ

CALIFORNIA ENERGY COMMISSION

1516 9TH ST., MS-20 SACRAMENTO CA 95814

Email: dmetz@energy.state.ca.us

Status: STATE-SERVICE

ROSS A. MILLER ELECTRICITY ANALYSIS OFFICE

CALIFORNIA ENERGY COMMISSION

1516 9TH ST MS 20

SACRAMENTO CA 96814-5512

FOR: CALIFORNIA ENERGY COMMISSION

Email: rmiller@energy.state.ca.us

Status: STATE-SERVICE

MARCIE MILNER DIRECTOR - REGULATORY AFFAIRS

SHELL TRADING GAS & POWER COMPANY

4445 EASTGATE MALL, STE 100

SAN DIEGO CA 92121

Email: marcie.milner@shell.com

Status: PARTY

CYNTHIA MITCHELL

ENERGY ECONOMICS, INC.

530 COLGATE COURT RENO NV 89503

Email: ckmitchell1@sbcglobal.net

Status: INFORMATION

Ed Moldavsky

CALIF PUBLIC UTILITIES COMMISSION

LEGAL DIVISION

505 VAN NESS AVE RM 5037 SAN FRANCISCO CA 94102-3214

Email: edm@cpuc.ca.gov Status: STATE-SERVICE

WES MONIER STRATEGIC ISSUES AND PLANNING

MANAGER

TURLOCK IRRIGATION DISTRICT

333 EAST CANAL DRIVE, PO BOX 949

TURLOCK CA 95381-0949 Email: fwmonier@tid.org Status: INFORMATION

Beth Moore

CALIF PUBLIC UTILITIES COMMISSION

ELECTRICITY RESOURCES & PRICING BRANCH

505 VAN NESS AVE RM 4103 SAN FRANCISCO CA 94102-3214

Email: blm@cpuc.ca.gov Status: STATE-SERVICE

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RONALD MOORE

GOLDEN STATE WATER/BEAR VALLEY ELECTRIC

630 EAST FOOTHILL BLVD SAN DIMAS CA 91773

FOR: Golden State Water/Bear Valley Electric

Email: rkmoore@gswater.com

Status: PARTY

GREGG MORRIS DIRECTOR GREEN POWER INSTITUTE 2039 SHATTUCK AVE, STE 402 BERKELEY CA 94704

FOR: Green Power Institute Email: gmorris@emf.net

Status: PARTY

STEVEN MOSS

SAN FRANCISCO COMMUNITY POWER COOP

2325 3RD ST, STE 344 SAN FRANCISCO CA 94120 Email: steven@moss.net Status: INFORMATION

Lainie Motamedi

CALIF PUBLIC UTILITIES COMMISSION DIVISION OF STRATEGIC PLANNING 505 VAN NESS AVE RM 5119 SAN FRANCISCO CA 94102-3214

Email: Irm@cpuc.ca.gov Status: STATE-SERVICE

CLYDE MURLEY 1031 ORDWAY ST ALBANY CA 94706

Email: clyde.murley@comcast.net

Status: INFORMATION

Richard A. Myers

CALIF PUBLIC UTILITIES COMMISSION

RATEMAKING BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: ram@cpuc.ca.gov Status: STATE-SERVICE

JESSICA NELSON

PLUMAS-SIERRA RURAL ELECTRIC CO-OP

73233 STATE ROUTE 70, STE A PORTOLA CA 96122-7064

FOR: Plumas-Sierra Rural Electric Coop

Email: notice@psrec.coop

Status: PARTY

RICHARD J. MORILLO ASSISTANT CITY ATTORNEY

CITY OF BURBANK 215 E. OLIVE AVE BURBANK CA 91502

Email: rmorillo@ci.burbank.ca.us

Status: INFORMATION

Harvey Y. Morris

CALIF PUBLIC UTILITIES COMMISSION

LEGAL DIVISION

505 VAN NESS AVE RM 5036 SAN FRANCISCO CA 94102-3214

Email: hym@cpuc.ca.gov Status: STATE-SERVICE

MATTHEW MOST

EDISON MISSION MARKETING & TRADING, INC.

160 FEDERAL ST

BOSTON MA 02110-1776 Status: INFORMATION

PHILLIP J. MULLER SCD ENERGY SOLUTIONS 436 NOVA ALBION WAY

SAN RAFAEL CA 94903 Email: philm@scdenergy.com Status: INFORMATION

Scott Murtishaw

CALIF PUBLIC UTILITIES COMMISSION

ENERGY DIVISION

505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: sgm@cpuc.ca.gov Status: STATE-SERVICE

SARA STECK MYERS ATTORNEY

122 28TH AVE

SAN FRANCISCO CA 94121

FOR: Center for Energy Efficiency and Renewable

Technologies

Email: ssmyers@att.net

Status: PARTY

DAVID NEMTZOW 1254 9TH ST, NO. 6

SANTA MONICA CA 90401 Email: david@nemtzow.com Status: INFORMATION

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SID NEWSOM TARIFF MANAGER
SOUTHERN CALIFORNIA GAS COMPANY

GT 14 D6

555 WEST 5TH ST LOS ANGELES CA 90051

Email: snewsom@semprautilities.com

Status: PARTY

SEPHRA A. NINOW POLICY ANALYST

CALIFORNIA CENTER FOR SUSTAINABLE ENERGY

8690 BALBOA AVE, STE 100 SAN DIEGO CA 92123

Email: sephra.ninow@energycenter.org

Status: INFORMATION

RITA NORTON

RITA NORTON AND ASSOCIATES, LLC

18700 BLYTHSWOOD DRIVE, LOS GATOS CA 95030

Email: rita@ritanortonconsulting.com

Status: INFORMATION

ALVIN PAK

SEMPRA GLOBAL ENTERPRISES

101 ASH ST

SAN DIEGO CA 92101

FOR: Sempra Global Enterprises Email: apak@sempraglobal.com

Status: PARTY

LORRAINE PASKETT DIRECTOR, LEGISLATIVE AND

REG. AFFAIRS

LA DEPT. OF WATER & POWER

PO BOX 51111

111 N. HOWARD ST., RM 1536 LOS ANGELES CA 90012

FOR: Los Angeles Dept of Water and Power

Email: Lorraine.Paskett@ladwp.com

Status: PARTY

JOSEPH PAUL SENIOR CORPORATE COUNSEL

DYNEGY, INC.

4140 DUBLIN BLVD., STE. 100

DUBLIN CA 94568

Email: Joe.paul@dynegy.com Status: INFORMATION

NORMAN A. PEDERSEN ATTORNEY

HANNA AND MORTON, LLP

444 SOUTH FLOWER ST, NO. 1500

LOS ANGELES CA 90071

FOR: Southern California Generation Coalition/Southern

California Public Power Authority

Email: npedersen@hanmor.com

Status: PARTY

DESPINA NIEHAUS

SAN DIEGO GAS AND ELECTRIC COMPANY

8330 CENTURY PARK COURT, CP32H

SAN DIEGO CA 92123-1530

FOR: San Diego Gas and Electric Company

Email: dniehaus@semprautilities.com

Status: INFORMATION

RICK C. NOGER

PRAXAIR PLAINFIELD, INC.

2711 CENTERVILLE ROAD, STE 400

WILMINGTON DE 19808
FOR: Praxair Plainfield, Inc.
Email: rick_noger@praxair.com

Status: PARTY

TIMOTHY R. ODIL

MCKENNA LONG & ALDRIDGE LLP

1875 LAWRENCE ST, STE 200

DENVER CO 80202

FOR: Center for Energy and Economic Development

Email: todil@mckennalong.com

Status: PARTY

LAURIE PARK

NAVIGANT CONSULTING, INC.

3100 ZINFANDEL DRIVE, STE 600 RANCHO CORDOVA CA 95670-6078 Email: lpark@navigantconsulting.com

Status: INFORMATION

SHERIDAN J. PAUKER

WILSON SONSINI GOODRICH & ROSATI

SPEAR TOWER, SUITE 3300

ONE MARKET ST

SAN FRANCISCO CA 94105 Email: spauker@wsgr.com Status: INFORMATION

CARL PECHMAN POWER ECONOMICS

901 CENTER ST

SANTA CRUZ CA 95060

Email: cpechman@powereconomics.com

Status: INFORMATION

JAN PEPPER

CLEAN POWER MARKETS, INC.

PO BOX 3206 418 BENVENUE AVE LOS ALTOS CA 94024

Email: pepper@cleanpowermarkets.com

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Joel T. Perlstein

CALIF PUBLIC UTILITIES COMMISSION

LEGAL DIVISION

505 VAN NESS AVE RM 5133 SAN FRANCISCO CA 94102-3214

Email: jtp@cpuc.ca.gov Status: STATE-SERVICE

COLIN PETHERAM DIRECTOR-REGULATORY

SBC CALIFORNIA

140 NEW MONTGOMERY ST., STE 1325

SAN FRANCISCO CA 94105 Email: colin.petheram@att.com Status: INFORMATION

PHILIP D. PETTINGILL

CALIFORNIA INDEPENDENT SYSTEM OPERATOR

151 BLUE RAVINE ROAD FOLSOM CA 95630 FOR: CAISO

Email: ppettingill@caiso.com Status: STATE-SERVICE

GORDON PICKERING PRINCIPAL

NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, STE 600

RANCHO CORDOVA CA 95670-6078 Email: gpickering@navigantconsulting.com

Status: INFORMATION

JENNIFER PORTER POLICY ANALYST

CALIFORNIA CENTER FOR SUSTAINABLE ENERGY

8690 BALBOA AVE, STE 100 SAN DIEGO CA 92123

Email: jennifer.porter@energycenter.org

Status: INFORMATION

VIDHYA PRABHAKARAN

GOODIN, MACBRIDE, SQUERI, DAY, LAMPREY

505 SANSOME ST, STE 900 SAN FRANCISCO CA 94111

FOR: Independent Energy Producers Association Email: vprabhakaran@goodinmacbride.com

Status: PARTY

JJ PRUCNAL

SOUTHWEST GAS CORPORATION

PO BOX 98510

LAS VEGAS NV 89193-8510 Email: jj.prucnal@swgas.com Status: INFORMATION **CARLA PETERMAN**

UCEI

2547 CHANNING WAY BERKELEY CA 94720

Email: carla.peterman@gmail.com

Status: INFORMATION

ROBERT L. PETTINATO

LOS ANGELES DEPARTMENT OF WATER & POWER

111 NORTH HOPE ST, STE 1151 LOS ANGELES CA 90012

Email: robert.pettinato@ladwp.com

Status: INFORMATION

Paul S. Phillips

CALIF PUBLIC UTILITIES COMMISSION

ELECTRICITY RESOURCES & PRICING BRANCH

505 VAN NESS AVE RM 4101 SAN FRANCISCO CA 94102-3214

Email: psp@cpuc.ca.gov Status: STATE-SERVICE

EDWARD G POOLE

ANDERSON DONOVAN & POOLE

601 CALIFORNIA ST STE 1300 SAN FRANCISCO CA 94108

FOR: San Francisco Community Power

Email: epoole@adplaw.com

Status: PARTY

BRIAN POTTS

FOLEY & LARDNER

PO BOX 1497

150 EAST GILMAN ST MADISON WI 53701-1497 Email: bpotts@foley.com Status: INFORMATION

RASHA PRINCE

SOUTHERN CALIFORNIA GAS COMPANY

555 WEST 5TH ST, GT14D6 LOS ANGELES CA 90013

Email: rprince@semprautilities.com

Status: INFORMATION

MARC PRYOR

CALIFORNIA ENERGY COMMISSION

1516 9TH ST., MS-20 SACRAMENTO CA 95814

Email: mpryor@energy.state.ca.us

Status: STATE-SERVICE

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BALWANT S. PUREWAL

DEPARTMENT OF WATER RESOURCES

3310 EL CAMINO AVE., LL-90 SACRAMENTO CA 95821 Email: bpurewal@water.ca.gov

Status: INFORMATION

STEVE RAHON DIRECTOR, TARIFF & REGULATORY

ACCOUNTS

SAN DIEGO GAS & ELECTRIC COMPANY

8330 CENTURY PARK COURT, CP32C

SAN DIEGO CA 92123-1548

FOR: San Diego Gas & Electric Company Email: lschavrien@semprautilities.com

Status: PARTY

TIFFANY RAU POLICY AND COMMUNICATIONS

MANAGER

CARSON HYDROGEN POWER PROJECT LLC

ONE WORLD TRADE CENTER, STE 1600

LONG BEACH CA 90831-1600

FOR: Carson Hydrogen Power Project LLC

Email: tiffany.rau@bp.com

Status: PARTY

ROBERT J. REINHARD

MORRISON AND FOERSTER

425 MARKET ST

SAN FRANCISCO CA 94105-2482 Email: rreinhard@mofo.com Status: INFORMATION

JANILL RICHARDS DEPUTY ATTORNEY GENERAL **CALIFORNIA ATTORNEY GENERAL'S OFFICE**

1515 CLAY ST. 20TH FLR OAKLAND CA 94702

FOR: People of the State of California Email: janill.richards@doj.ca.gov

Status: PARTY

Steve Roscow

CALIF PUBLIC UTILITIES COMMISSION

RATEMAKING BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: scr@cpuc.ca.gov Status: STATE-SERVICE

JAMES ROSS RCS. INC.

500 CHESTERFIELD CENTER, STE 320

CHESTERFIELD MO 63017 Email: jimross@r-c-s-inc.com Status: INFORMATION

BARRY RABE 1427 ROSS ST

PLYMOUTH MI 48170 Email: brabe@umich.edu Status: INFORMATION

Kristin Ralff Douglas

CALIF PUBLIC UTILITIES COMMISSION DIVISION OF STRATEGIC PLANNING

505 VAN NESS AVE RM 5119 SAN FRANCISCO CA 94102-3214

Email: krd@cpuc.ca.gov Status: STATE-SERVICE

JOHN R. REDDING

ARCTURUS ENERGY CONSULTING

44810 ROSEWOOD TERRACE MENDOCINO CA 95460

Email: johnrredding@earthlink.net

Status: INFORMATION

DAVID REYNOLDS MEMBER SERVICES MANAGER

NORTHERN CALIFORNIA POWER AGENCY

180 CIRBY WAY

ROSEVILLE CA 95678-6420 Email: davidreynolds@ncpa.com

Status: INFORMATION

THEODORE ROBERTS ATTORNEY

SEMPRA GLOBAL

101 ASH ST. HQ 13D SAN DIEGO CA 92101-3017

FOR: Sempra Global/Sempra Energy Solutions

Email: troberts@sempra.com

Status: PARTY

GRANT ROSENBLUM, ESQ.

CALIFORNIA ISO

LEGAL AND REGULATORY DEPARTMENT

151 BLUE RAVINE ROAD FOLSOM CA 95630

Email: grosenblum@caiso.com

Status: INFORMATION

ROBERT K. ROZANSKI

LOS ANGELES DEPT OF WATER AND POWER

111 NORTH HOPE ST, RM 1520 LOS ANGELES CA 90012

Email: Robert.Rozanski@ladwp.com

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Nancy Ryan

CALIF PUBLIC UTILITIES COMMISSION

EXECUTIVE DIVISION 505 VAN NESS AVE RM 5217 SAN FRANCISCO CA 94102-3214

Email: ner@cpuc.ca.gov Status: STATE-SERVICE

RANDY SABLE

SOUTHWEST GAS CORPORATION

MAILSTOP: LVB-105

5241 SPRING MOUNTAIN ROAD

LAS VEGAS NV 89193

Email: randy.sable@swgas.com

Status: INFORMATION

Jason R. Salmi Klotz

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: jk1@cpuc.ca.gov Status: STATE-SERVICE

SOUMYA SASTRY

PACIFIC GAS AND ELECTRIC COMPANY

MAIL CODE B9A PO BOX 770000

SAN FRANCISCO CA 94177 Email: svs6@pge.com Status: INFORMATION

MICHAEL SCHEIBLE DEPUTY EXECUTIVE OFFICER

CALIFORNIA AIR RESOURCES BOARD

1001 I ST

SACRAMENTO CA 95677

FOR: California Air Resources Board

Email: mscheibl@arb.ca.gov Status: STATE-SERVICE

STEVEN SCHILLER

SCHILLER CONSULTING, INC.

111 HILLSIDE AVE
PIEDMONT CA 94611
Email: steve@schiller.com
Status: INFORMATION

REED V. SCHMIDT VICE PRESIDENT

BARTLE WELLS ASSOCIATES

1889 ALCATRAZ AVE BERKELEY CA 94703

FOR: California City-County Street Light Association

Email: rschmidt@bartlewells.com

Status: INFORMATION

Pearlie Sabino

CALIF PUBLIC UTILITIES COMMISSION

ENERGY COST OF SERVICE & NATURAL GAS BRANCH

505 VAN NESS AVE RM 4209 SAN FRANCISCO CA 94102-3214

Email: pzs@cpuc.ca.gov Status: STATE-SERVICE

SAM SADLER

OREGON DEPARTMENT OF ENERGY

625 NE MARION ST SALEM OR 97301-3737

Email: samuel.r.sadler@state.or.us

Status: INFORMATION

JUDITH B. SANDERS ATTORNEY

CALIFORNIA INDEPENDENT SYSTEM OPERATOR

151 BLUE RAVINE ROAD FOLSOM CA 95630 FOR: CAISO

Email: jsanders@caiso.com Status: STATE-SERVICE

JANINE L. SCANCARELLI ATTORNEY

FOLGER, LEVIN & KAHN, LLP 275 BATTERY ST, 23RD FLR SAN FRANCISCO CA 94111 Email: jscancarelli@flk.com

Status: INFORMATION

JENINE SCHENK

APS ENERGY SERVICES

400 E. VAN BUREN ST, STE 750

PHOENIX AZ 85004

FOR: APS Energy Services Company Email: jenine.schenk@apses.com

Status: PARTY

STEVEN S. SCHLEIMER DIRECTOR, COMPLIANCE &

REGULATORY AFFAIRS BARCLAYS BANK, PLC 200 PARK AVE, FIFTH FLR NEW YORK NY 10166 FOR: Barclays Capital

Email: steven.schleimer@barclayscapital.com

Status: PARTY

DONALD SCHOENBECK

RCS, INC.

900 WASHINGTON ST, STE 780 VANCOUVER WA 98660 Email: dws@r-c-s-inc.com

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BILL SCHRAND SOUTHWEST GAS CORPORATON

PO BOX 98510

LAS VEGAS NV 89193-8510 Email: bill.schrand@swgas.com

Status: INFORMATION

Don Schultz

CALIF PUBLIC UTILITIES COMMISSION

ELECTRICITY RESOURCES & PRICING BRANCH

770 L ST, STE 1050 SACRAMENTO CA 95814 Email: dks@cpuc.ca.gov Status: STATE-SERVICE

MONICA A. SCHWEBS, ESQ. BINGHAM MCCUTCHEN LLP

PO BOX V

1333 N. CALIFORNIA BLVD., STE 210

WALNUT CREEK CA 94596

Email: monica.schwebs@bingham.com

Status: INFORMATION

BETTY SETO POLICY ANALYST

KEMA, INC.

492 NINTH ST, STE 220 OAKLAND CA 94607

Email: Betty.Seto@kema.com Status: INFORMATION

KYLE SILON

ECOSECURITIES CONSULTING LIMITED

529 SE GRAND AVE PORTLAND OR 97214

Email: kyle.silon@ecosecurities.com

Status: INFORMATION

Sean A. Simon

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: svn@cpuc.ca.gov Status: STATE-SERVICE

DAN SKOPEC

CLIMATE & ENERGY CONSULTING

1201 K ST STE 970 SACRAMENTO CA 95814

FOR: Climate & Energy Consulting Email: danskopec@gmail.com Status: INFORMATION

CYNTHIA SCHULTZ REGULATORY FILING

COORDINATOR

PACIFIC POWER AND LIGHT COMPANY

825 NE MULTNOMAH PORTLAND OR 97232

Email: cynthia.schultz@pacificorp.com

Status: PARTY

LISA SCHWARTZ SENIOR ANALYST
ORGEON PUBLIC UTILITY COMMISSION

PO BOX 2148

SALEM OR 97308-2148

Email: lisa.c.schwartz@state.or.us

Status: INFORMATION

PAUL M. SEBY

MCKENNA LONG & ALDRIDGE LLP

1875 LAWRENCE ST, STE 200

DENVER CO 80202

FOR: Center for Energy and Economic Development

Email: pseby@mckennalong.com

Status: PARTY

NORA SHERIFF ATTORNEY

ALCANTAR & KAHL, LLP

120 MONTGOMERY ST, STE 2200 SAN FRANCISCO CA 94104

Email: nes@a-klaw.com Status: INFORMATION

DAN SILVERIA

SURPRISE VALLEY ELECTRIC CORPORATION

PO BOX 691

ALTURAS CA 96101

FOR: Surprise Valley Electric Cooperative

Email: dansvec@hdo.net

Status: PARTY

KEVIN J. SIMONSEN

ENERGY MANAGEMENT SERVICES

646 EAST THIRD AVE DURANGO CO 81301

Email: kjsimonsen@ems-ca.com

Status: INFORMATION

DEBORAH SLON DEPUTY ATTORNEY GENERAL,

ENVIRONMENT

OFFICE OF THE ATTORNEY GENERAL

1300 I ST, 15TH FLR SACRAMENTO CA 95814 Email: deborah.slon@doj.ca.gov

Status: STATE-SERVICE

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Donald R. Smith

CALIF PUBLIC UTILITIES COMMISSION

ELECTRICITY RESOURCES & PRICING BRANCH 505 VAN NESS AVE RM 4209

SAN FRANCISCO CA 94102-3214

Email: dsh@cpuc.ca.gov Status: STATE-SERVICE

KELLIE SMITH

SENATE ENERGY/UTILITIES & COMMUNICATION

STATE CAPITOL, RM 4038 SACRAMENTO CA 95814 Email: kellie.smith@sen.ca.gov

Status: INFORMATION

ROBIN SMUTNY-JONES

CALIFORNIA ISO

151 BLUE RAVINE ROAD FOLSOM CA 95630

Email: rsmutny-jones@caiso.com

Status: INFORMATION

DARRELL SOYARS MANAGER-RESOURCE

PERMITTING&STRATEGIC
SIERRA PACIFIC RESOURCES

6100 NEIL ROAD RENO NV 89520-0024

FOR: Sierra Pacific Resources Email: dsoyars@sppc.com Status: INFORMATION

SEEMA SRINIVASAN ATTORNEY

ALCANTAR & KAHL, LLP

120 MONTGOMERY ST, STE 2200 SAN FRANCISCO CA 94104

FOR: Energy Producers & Users Coalition

Email: sls@a-klaw.com

Status: PARTY

FRANK STERN

SUMMIT BLUE CONSULTING

1722 14TH ST, STE 230 BOULDER CO 80302

FOR: Summit Blue Consulting Email: fstern@summitblue.com

Status: INFORMATION

F. Jackson Stoddard

CALIF PUBLIC UTILITIES COMMISSION

EXECUTIVE DIVISION 505 VAN NESS AVE RM 5125 SAN FRANCISCO CA 94102-3214

Email: fjs@cpuc.ca.gov

Status: PARTY

GLORIA D. SMITH

ADAMS, BROADWELL, JOSEPH & CARDOZO

601 GATEWAY BLVD., STE 1000 SOUTH SAN FRANCISCO CA 94080 Email: gsmith@adamsbroadwell.com

Status: INFORMATION

RICHARD SMITH

MODESTO IRRIGATION DISTRICT

1231 11TH ST

MODESTO CA 95352-4060 Email: richards@mid.org Status: INFORMATION

JEANNE M. SOLE DEPUTY CITY ATTORNEY

CITY AND COUNTY OF SAN FRANCISCO

1 DR. CARLTON B. GOODLETT PLACE, RM. 234

SAN FRANCISCO CA 94102

FOR: City and County of San Francisco

Email: jeanne.sole@sfgov.org

Status: PARTY

JAMES D. SQUERI ATTORNEY

GOODIN MACBRIDE SQUERI RITCHIE & DAY LLP

505 SANSOME ST, STE 900 SAN FRANCISCO CA 94111 FOR: Powerex Corp. Email: jsqueri@gmssr.com

Status: PARTY

ANNIE STANGE

ALCANTAR & KAHL

1300 SW FIFTH AVE., STE 1750 PORTLAND OR 97201

Email: sas@a-klaw.com Status: INFORMATION

Henry Stern

CALIF PUBLIC UTILITIES COMMISSION

DIVISION OF ADMINISTRATIVE LAW JUDGES

505 VAN NESS AVE RM 2106 SAN FRANCISCO CA 94102-3214

Email: hs1@cpuc.ca.gov Status: STATE-SERVICE

Elizabeth Stoltzfus

CALIF PUBLIC UTILITIES COMMISSION

ENERGY DIVISION

505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: eks@cpuc.ca.gov Status: STATE-SERVICE

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PATRICK STONER PROGRAM DIRECTOR LOCAL GOVERNMENT COMMISSION

1303 J ST, STE 250 SACRAMENTO CA 95814 Email: pstoner@lgc.org Status: INFORMATION

KENNY SWAIN

NAVIGANT CONSULTING

3100 ZINFANDEL DRIVE, STE 600 RANCHO CORDOVA CA 95670

Email: kenneth.swain@navigantconsulting.com

Status: INFORMATION

Christine S. Tam

CALIF PUBLIC UTILITIES COMMISSION

ELECTRICITY RESOURCES & PRICING BRANCH 505 VAN NESS AVE RM 4209 SAN FRANCISCO CA 94102-3214

Email: tam@cpuc.ca.gov Status: STATE-SERVICE

WEBSTER TASAT

AIR RESOURCES BOARD

1001 I ST

SACRAMENTO CA 95814 Email: wtasat@arb.ca.gov Status: INFORMATION

Charlotte TerKeurst

CALIF PUBLIC UTILITIES COMMISSION
DIVISION OF ADMINISTRATIVE LAW JUDGES

505 VAN NESS AVE RM 5117 SAN FRANCISCO CA 94102-3214

Email: cft@cpuc.ca.gov Status: STATE-SERVICE

PATRICIA THOMPSON SUMMIT BLUE CONSULTING

2920 CAMINO DIABLO, STE 210 WALNUT CREEK CA 94597

Email: pthompson@summitblue.com

Status: INFORMATION

EDWARD J. TIEDEMANN ATTORNEY

KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD

400 CAPITOL MALL, 27TH FLR SACRAMENTO CA 95814-4416

FOR: Placer County Water Agency & Kings River

Conservation District
Email: etiedemann@kmtg.com

Status: INFORMATION

NINA SUETAKE ATTORNEY
THE UTILITY REFORM NETWORK

711 VAN NESS AVE., STE. 350

SAN FRANCISCO CA 94102 Email: nsuetake@turn.org

Status: PARTY

Jeorge S. Tagnipes

CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: jst@cpuc.ca.gov Status: STATE-SERVICE

JAMES W. TARNAGHAN

DUANE MORRIS LLP

SUITE 2000

ONE MARKET, SPEAR TOWER SAN FRANCISCO CA 94105

FOR: Lodi Gas Storage

Email: jwmctarnaghan@duanemorris.com

Status: INFORMATION

ROBERT R. TAYLOR

AGRICULTURAL IMPROVEMENT AND POWER DIST.

1600 NORTH PRIEST DRIVE, PAB221

TEMPE AZ 85281

Email: rrtaylor@srpnet.com

Status: PARTY

KAREN TERRANOVA

ALCANTAR & KAHL, LLP

120 MONTGOMERY ST, STE 2200 SAN FRANCISCO CA 94104 Email: filings@a-klaw.com Status: INFORMATION

DEAN R. TIBBS PRESIDENT ADVANCED ENERGY STRATEGIES, INC.

1390 WILLOW PASS ROAD, STE 610

CONCORD CA 94520 Email: dtibbs@aes4u.com Status: INFORMATION

SCOTT TOMASHEFSKY

NORTHERN CALIFORNIA POWER AGENCY

180 CIRBY WAY

ROSEVILLE CA 95678-6420

Email: scott.tomashefsky@ncpa.com

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WAYNE TOMLINSON EL PASO CORPORATION

WESTERN PIPELINES 2 NORTH NEVADA AVE

COLORADO SPRINGS CO 80903 Email: william.tomlinson@elpaso.com

Status: INFORMATION

ALLEN K. TRIAL

SAN DIEGO GAS & ELECTRIC COMPANY

HQ-12 101 ASH ST

SAN DIEGO CA 92101 Email: atrial@sempra.com

Status: PARTY

ANN L. TROWBRIDGE ATTORNEY DAY CARTER & MURPHY, LLP

3620 AMERICAN RIVER DRIVE, STE 205

SACRAMENTO CA 95864

FOR: California Clean DG Coalition/Northwest Natural Gas

Email: atrowbridge@daycartermurphy.com

Status: PARTY

ROGER VAN HOY

MODESTO IRRIGATION DISTRICT

1231 11TH ST MODESTO CA 95354

Email: rogerv@mid.org Status: INFORMATION

EDWARD VINE

LAWRENCE BERKELEY NATIONAL LABORATORY

BUILDING 90R4000 BERKELEY CA 94720 Email: elvine@lbl.gov Status: INFORMATION

Status. INFORMATION

BARRY R. WALLERSTEIN EXECUTIVE OFFICER

SOUTH COAST AQMD 21865 COPLEY DRIVE

DIAMOND BAR CA 91765-4182

FOR: South Coast Air Quality Management District

Email: bwallerstein@aqmd.gov

Status: PARTY

CHRISTOPHER J. WARNER

PACIFIC GAS AND ELECTRIC COMPANY

77 BEALE ST, PO BOX 7442 SAN FRANCISCO CA 94120-7442 FOR: Pacific Gas and Electric

Email: cjw5@pge.com Status: PARTY Lana Tran

CALIF PUBLIC UTILITIES COMMISSION

ELECTRIC GENERATION PERFORMANCE BRANCH

505 VAN NESS AVE AREA 2-D SAN FRANCISCO CA 94102-3214

Email: ltt@cpuc.ca.gov Status: STATE-SERVICE

NANCY TRONAAS

CALIFORNIA ENERGY COMMISSION

1516 9TH ST. MS-20

SACRAMENTO CA 95814-5512 Email: ntronaas@energy.state.ca.us

Status: STATE-SERVICE

ANDREW J. VAN HORN
VAN HORN CONSULTING

12 LIND COURT ORINDA CA 94563

Email: andy.vanhorn@vhcenergy.com

Status: INFORMATION

BETH VAUGHAN

CALIFORNIA COGENERATION COUNCIL

4391 N. MARSH ELDER COURT

CONCORD CA 94521 Email: beth@beth411.com

Status: PARTY

SYMONE VONGDEUANE

SEMPRA ENERGY SOLUTIONS

101 ASH ST, HQ09

SAN DIEGO CA 92101-3017 FOR: Sempra Energy Solutions

Email: svongdeuane@semprasolutions.com

Status: PARTY

DEVRA WANG

NATURAL RESOURCES DEFENSE COUNCIL

111 SUTTER ST, 20TH FLR SAN FRANCISCO CA 94104 Email: dwang@nrdc.org Status: INFORMATION

JOY A. WARREN REGULATORY ADMINISTRATOR

MODESTO IRRIGATION DISTRICT

1231 11TH ST

MODESTO CA 95354 Email: joyw@mid.org Status: PARTY

Downloaded December 17, 2007, last updated on December 13, 2007 Commissioner Assigned: Michael R. Peevey on April 17, 2006 ALJ Assigned: Charlotte TerKeurst on September 19, 2006 ALJ Assigned: Jonathan Lakritz on May 9, 2006

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MICHAEL WAUGH
AIR RESOURCES BOARD

1001 10TH ST

SACRAMENTO CA 95814 Email: mwaugh@arb.ca.gov Status: INFORMATION

RAY WELCH ASSOCIATE DIRECTOR NAVIGANT CONSULTING, INC. ONE MARKET PLAZA, STE 1200 SAN FRANCISCO CA 94105

Email: ray.welch@navigantconsulting.com

Status: INFORMATION

JOHN B. WELDON, JR.

SALMON, LEWIS & WELDON, P.L.C. 2850 EAST CAMELBACK ROAD, STE 200 PHOENIX AZ 85016

FOR: Salt River Project Agricultural Improvement and

Power District

Email: jbw@slwplc.com Status: PARTY

Pamela Wellner
CALIF PUBLIC UTILITIES COMMISSION

ENERGY RESOURCES BRANCH 505 VAN NESS AVE AREA 4-A SAN FRANCISCO CA 94102-3214

Email: pw1@cpuc.ca.gov Status: STATE-SERVICE

WILLIAM W. WESTERFIELD, 111 ATTORNEY ELLISON, SCHNEIDER & HARRIS L.L.P.

2015 H ST

SACRAMENTO CA 95814

FOR: Sierra Pacific Power Company

Email: www@eslawfirm.com

Status: PARTY

GREGGORY L. WHEATLAND ATTORNEY ELLISON, SCHNEIDER & HARRIS, LLP

2015 H ST

SACRAMENTO CA 95814 FOR: LS Power, Inc. Email: glw@eslawfirm.com

Status: PARTY

KATHRYN WIG PARALEGAL NRG ENERGY, INC. 211 CARNEGIE CENTER PRINCETON NY 8540

Email: Kathryn.Wig@nrgenergy.com

Status: INFORMATION

LISA WEINZIMER ASSOCIATE EDITOR

PLATTS MCGRAW-HILL 695 NINTH AVE, NO. 2 SAN FRANCISCO CA 94118 Email: lisa weinzimer@platts.com

Status: INFORMATION

VIRGIL WELCH STAFF ATTORNEY ENVIRONMENTAL DEFENSE

1107 9TH ST, STE 540 SACRAMENTO CA 95814

Email: vwelch@environmentaldefense.org

Status: PARTY

ANDREA WELLER
STRATEGIC ENERGY

3130 D BALFOUR RD., STE 290 BRENTWOOD CA 94513

FOR: Strategic Energy Email: aweller@sel.com

Status: PARTY

ELIZABETH WESTBY
ALCANTAR & KAHL, LLP

1300 SW FIFTH AVE, STE 1750 PORTLAND OR 97201

Email: egw@a-klaw.com Status: INFORMATION

S. NANCY WHANG ATTORNEY **MANATT, PHELPS & PHILLIPS, LLP**

11355 WEST OLYMPIC BLVD. LOS ANGELES CA 90064 Email: nwhang@manatt.com Status: INFORMATION

JOSEPH F. WIEDMAN ATTORNEY

GOODIN MACBRIDE SQUERI DAY & LAMPREY LLP

505 SANSOME ST, STE 900 SAN FRANCISCO CA 94111

Email: jwiedman@goodinmacbride.com

Status: INFORMATION

VALERIE J. WINN

PACIFIC GAS AND ELECTRIC COMPANY

PO BOX 770000, B9A

SAN FRANCISCO CA 94177-0001

Email: vjw3@pge.com Status: INFORMATION

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Commissioner Assigned: Michael R. Peevey on April 17, 2006
ALJ Assigned: Jonathan Lakritz on May 9, 2006

ALJ Assigned: Jonathan Lakritz on May 9, 2006

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REID A. WINTHROP PILOT POWER GROUP, INC.

8910 UNIVERSITY CENTER LANE, STE 520

SAN DIEGO CA 92122

Email: rwinthrop@pilotpowergroup.com

Status: PARTY

ELLEN WOLFE

RESERO CONSULTING 9289 SHADOW BROOK PL. GRANITE BAY CA 95746

Email: ewolfe@resero.com Status: INFORMATION

KEVIN WOODRUFF

WOODRUFF EXPERT SERVICES

1100 K ST, STE 204 SACRAMENTO CA 95814

Email: kdw@woodruff-expert-services.com

Status: INFORMATION

E.J. WRIGHT

OCCIDENTAL POWER SERVICES, INC.

5 GREENWAY PLAZA, STE 110

HOUSTON TX 77046 Email: ej_wright@oxy.com

Status: PARTY

HUGH YAO

SOUTHERN CALIFORNIA GAS COMPANY

555 W. 5TH ST, GT22G2 LOS ANGELES CA 90013

Email: HYao@SempraUtilities.com

Status: INFORMATION

ELIZABETH ZELLJADT 1725 I ST, NW STE 300 WASHINGTON DC 20006 Email: ez@pointcarbon.com Status: INFORMATION RYAN WISER **BERKELEY LAB**

MS-90-4000

ONE CYCLOTRON ROAD BERKELEY CA 94720 Email: rhwiser@lbl.gov Status: INFORMATION

DON WOOD

PACIFIC ENERGY POLICY CENTER

4539 LEE AVE LA MESA CA 91941 Email: dwood8@cox.net

Status: PARTY

CATHY S. WOOLLUMS

MIDAMERICAN ENERGY HOLDINGS COMPANY

106 EAST SECOND ST DAVENPORT IA 52801

FOR: Kern River Gas Transmission Email: cswoollums@midamerican.com

Status: PARTY

JUSTIN C. WYNNE BRAU & BLAISING, P.C. 915 L ST, STE 1270 SACRAMENTO CA 95814

Email: wynne@braunlegal.com

Status: INFORMATION

JEANNE ZAIONTZ
BP ENERGY COMPANY

501 WESTLAKE PARK BLVD, RM. 4328

HOUSTON TX 77079 Email: zaiontj@bp.com Status: INFORMATION

DAVID ZONANA DEPUTY ATTORNEY GENERAL CALIFORNIA ATTORNEY GENERAL'S OFFICE

455 GOLDEN GATE AVE, STE 11000

SAN FRANCISCO CA 94102 Email: david.zonana@doj.ca.gov Status: STATE-SERVICE